

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: ML-22582		6. SURFACE: State	
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>						7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>						8. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE LP						9. WELL NAME and NUMBER: NBU 921-35AT	
3. ADDRESS OF OPERATOR: PO BOX 173779 CITY DENVER STATE CO ZIP 80217-3779				PHONE NUMBER: (720) 929-6666		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 504' FNL, 524' FEL 627145X 39.998352 AT PROPOSED PRODUCING ZONE: SAME 44284274 -109.510583						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 35 9S 21E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 48.8 MILES FROM VERNAL, UTAH						12. COUNTY: UINTAH	
						13. STATE: UTAH	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 504'			16. NUMBER OF ACRES IN LEASE: 320.37			17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 20'			19. PROPOSED DEPTH: 9,617			20. BOND DESCRIPTION: RLB0005237	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4990			22. APPROXIMATE DATE WORK WILL START:			23. ESTIMATED DURATION: 10 DAYS	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4	9 5/8	J-55	36 LTC	2,400	PREMIUM +2%CaCl	215 SK	1.18 15.60
					20 GAS SODIUM SLUR	100	1018 15.6
7 7/8	4 1/2	1-80	11.6	9,617	PREMIUM LITE II+3%	460	3.38 11.6
					50/50 POZ/G	1520	1.31 14.3

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) RALEEN WHITE TITLE SR. REGULATORY ANALYST

SIGNATURE Raleen White DATE 6/3/2008

(This space for State use only)

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**RECEIVED**

JUN 05 2008

DIV. OF OIL, GAS & MINING

API NUMBER ASSIGNED: 43-047-40114

APPROVAL:

Date: 06-11-08

(See Instructions on Reverse Side)

By: [Signature]

Uintah County Alum.  
Cap on 5/8" Rebar,  
0.5' High, Pile of  
Stones, Set Marked  
Stone

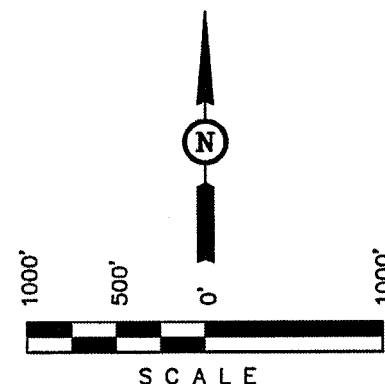
**T9S, R21E, S.L.B.&M.**

**Kerr McGee Oil & Gas Onshore LP**

Well location, NBU #921-35AT, located as  
shown in the NE 1/4 NE 1/4 of Section 35,  
T9S, R21E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE  
NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN  
FROM THE BIG PACK MTN NE QUADRANGLE, UTAH,  
UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL  
MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT  
OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION  
IS MARKED AS BEING 5238 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**

**86 SOUTH 200 EAST - VERNAL, UTAH 84078**

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-13-08	DATE DRAWN: 5-16-08
PARTY D.K. C.K. C.P.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr McGee Oil & Gas Onshore LP	

N89°47'19"W - 2646.02' (Meas.)

S89°47'32"E - 2646.02' (Meas.)

Set Stone, 5/8" Rebar

**NBU #921-35AT**

Elev. Ungraded Ground = 4990'

Uintah County  
Alum. Cap on  
5/8" Rebar, Pile  
of Stones

**35**

5/8" Rebar,  
Pile of Stones

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

Lot 4

Lot 3

Lot 2

Lot 1

S89°28'38"W  
164.44' (Meas.)

S89°08'06"W  
114.48' (Meas.)  
1977 Brass Cap,  
0.8' High, Pile  
of Stones

1977 Brass  
Cap

S89°08'26"W  
99.15' (Meas.)  
1977 Brass Cap,  
0.2' High, Pile  
of Stones

1977 Brass Cap,  
Pile of Stones

**T9S**  
**T10S**

Brass Cap  
1977 Brass Cap,  
Pile of Stones

-N89°06'39"E - 2646.05' (Meas.)-

-N89°14'33"E - 2642.67' (Meas.)-

**SEC. 2**

### LEGEND:

└─ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)

LATITUDE = 39°59'54.11" (39.998364)

LONGITUDE = 109°30'40.88" (109.511356)

(NAD 27)

LATITUDE = 39°59'54.24" (39.998400)

LONGITUDE = 109°30'38.41" (109.510669)

NBU 921-35AT  
NENE, SECTION 35, T9S, R21E  
UINTAH COUNTY, UTAH  
ML-22582

ONSHORE ORDER NO. 1

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1412'
Birds Nest	1709'
Mahogany	2085'
Wasatch	4676'
Mesaverde	8331'
TD	9617'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1412'
Water	Birds Nest	1709'
Water	Mahogany	2085'
Gas	Wasatch	4676'
Gas	Mesaverde	8331'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

*Please refer to the attached Drilling Program.*

4. **Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program.*

5. **Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

6. **Evaluation Program:**

*Please refer to the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9617' TD, approximately equals 5963 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3847 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at **0.22** psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please refer to the attached Drilling Program.*

10. **Other Information:**

*Please refer to the attached Drilling Program.*







# KERR-McGEE OIL & GAS ONSHORE LP

## DRILLING PROGRAM

### CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2,400'	36.00	J-55	LTC	0.96	1.80	5.99
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9617	11.60	I-80	LTC	2.11	1.09	2.06

- 1) Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.6 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)
- MASP 3685 psi

### CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	NOTE: If well will circulate water to surface, option 2 will be utilized						
	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	230	35%	11.60	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,167'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	460	60%	11.60	3.38
	TAIL	5,450'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1520	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT:

Randy Bayne

dhd 921-35AT

DATE: \_\_\_\_\_

NBU 921-35AT  
NENE SEC 35-T9S-R21E  
Uintah County, UT  
ML-22582

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

**2. Planned Access Roads:**

No new access road is proposed. Refer to Topo Map B for the location of existing access road.

The upgraded portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

*Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.*

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

**3. Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or

installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

**No new pipeline is proposed for this location.**

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E , Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E

**8. Ancillary Facilities:**

None are anticipated.

**9. Well Site Layout: (See Location Layout Diagram)**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

**10. Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

**11. Surface and Mineral Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

**12. Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey has been completed and is attached.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

**13. Lessee's or Operators's Representative & Certification:**

Raleen White  
Sr. Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6666

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435)781-7018

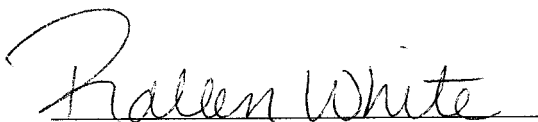
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005236.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Raleen White

Date 6-3-2008



# Kerr-McGee Oil & Gas Onshore LP

NBU #921-35AT

SECTION 35, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.8 MILES.

# Kerr-McGee Oil & Gas Onshore LP

## NBU #921-35AT

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 35, T9S, R21E, S.L.B.&M.

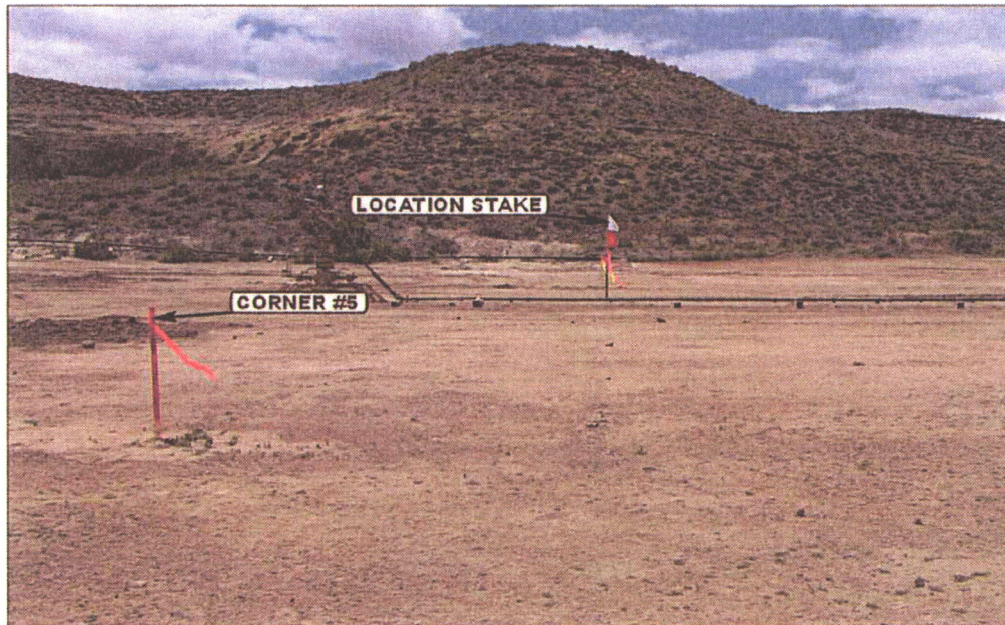


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

**U  
E  
L  
S**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

05 16 08  
MONTH DAY YEAR

PHOTO

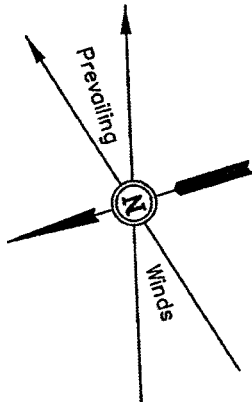
TAKEN BY: D.K. DRAWN BY: C.P. REVISED: 00-00-00

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

## LOCATION LAYOUT FOR

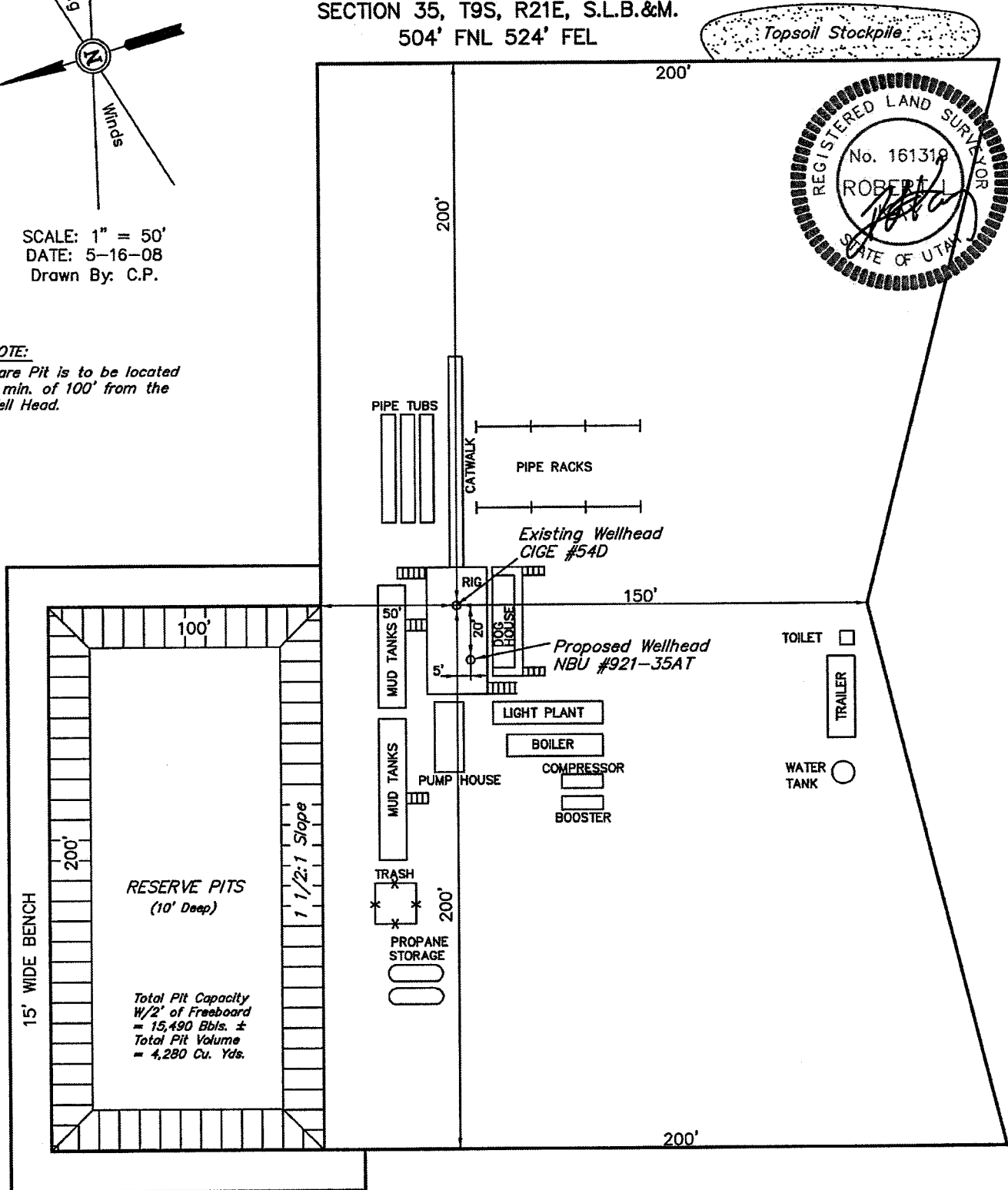
NBU #921-35AT  
SECTION 35, T9S, R21E, S.L.B.&M.  
504' FNL 524' FEL



SCALE: 1" = 50'  
DATE: 5-16-08  
Drawn By: C.P.

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.

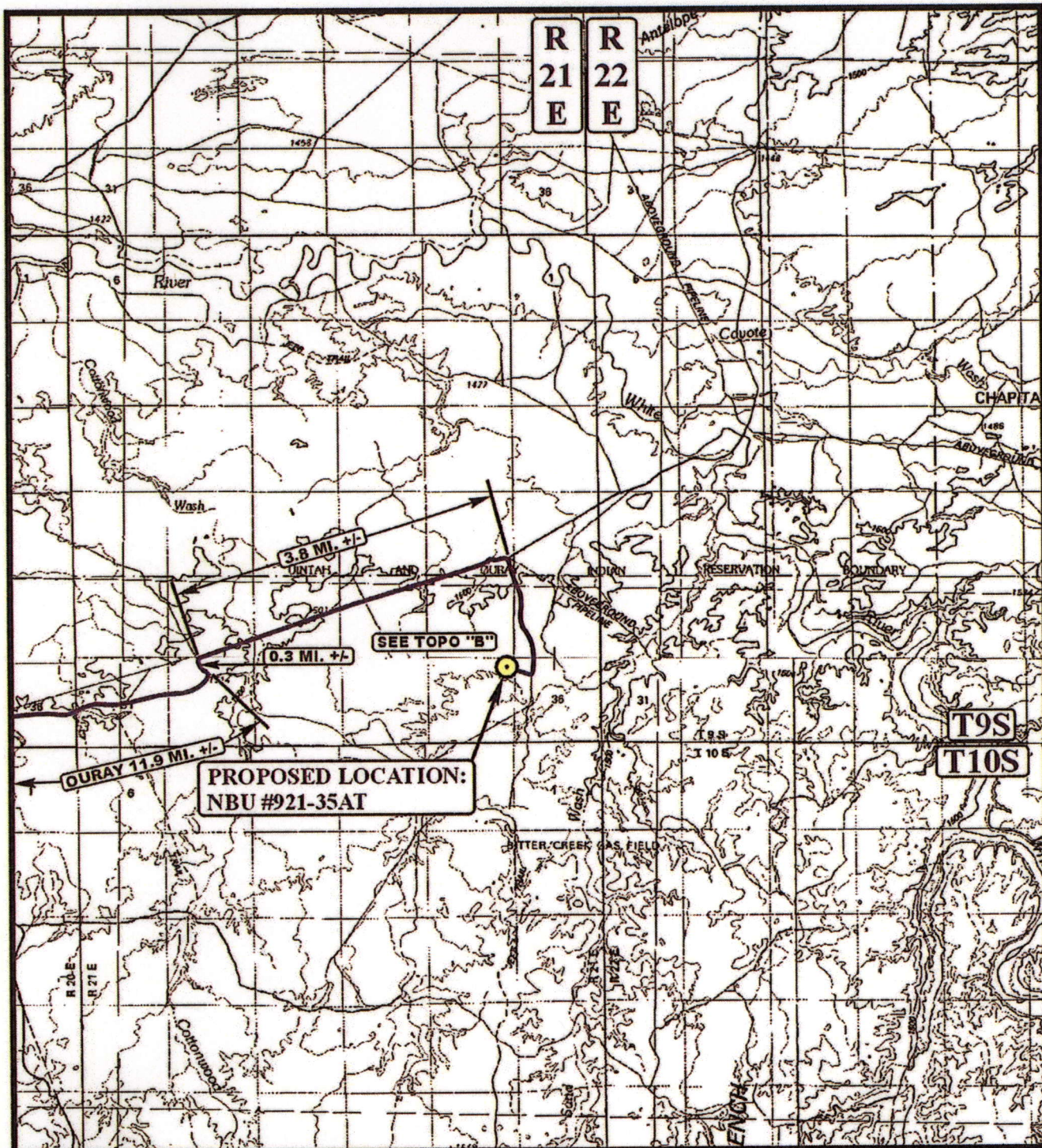


### NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 4990.2'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017





# **LEGEND:**

 PROPOSED LOCATION

**Kerr-McGee Oil & Gas Onshore LP**

**NBU #921-35AT**

**SECTION 35, T9S, R21E, S.L.B.&M.**

**504' FNL 524' FEL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**

**05 16 08**  
MONTH DAY YEAR

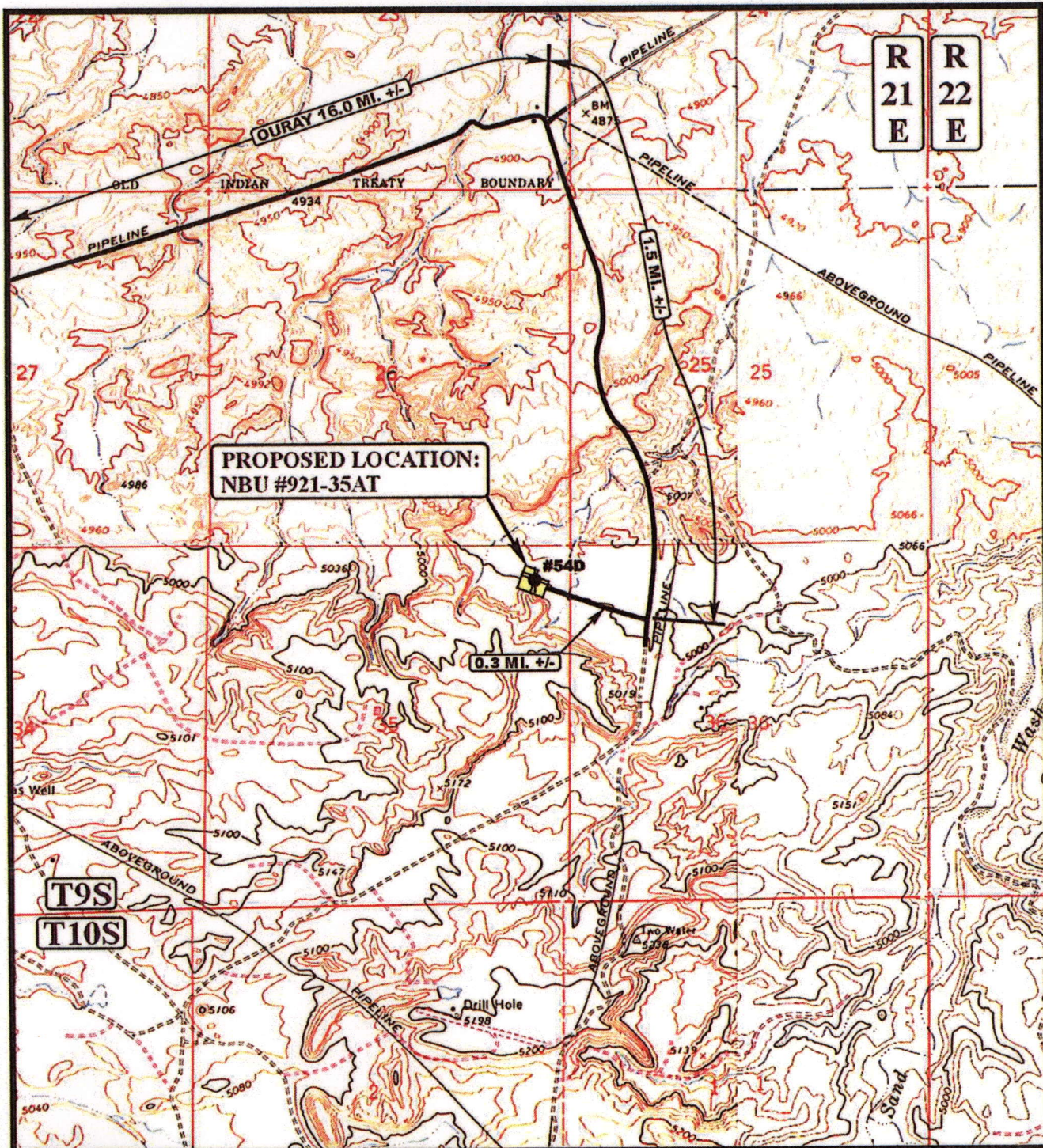
SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 00-00-00







R 21 E  
R 22 E

PROPOSED LOCATION:  
NBU #921-35AT

T9S  
T10S

**LEGEND:**

EXISTING ROAD



**Kerr-McGee Oil & Gas Onshore LP**

NBU #921-35AT  
SECTION 35, T9S, R21E, S.L.B.&M.  
504' FNL 524' FEL

**UELS**

Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

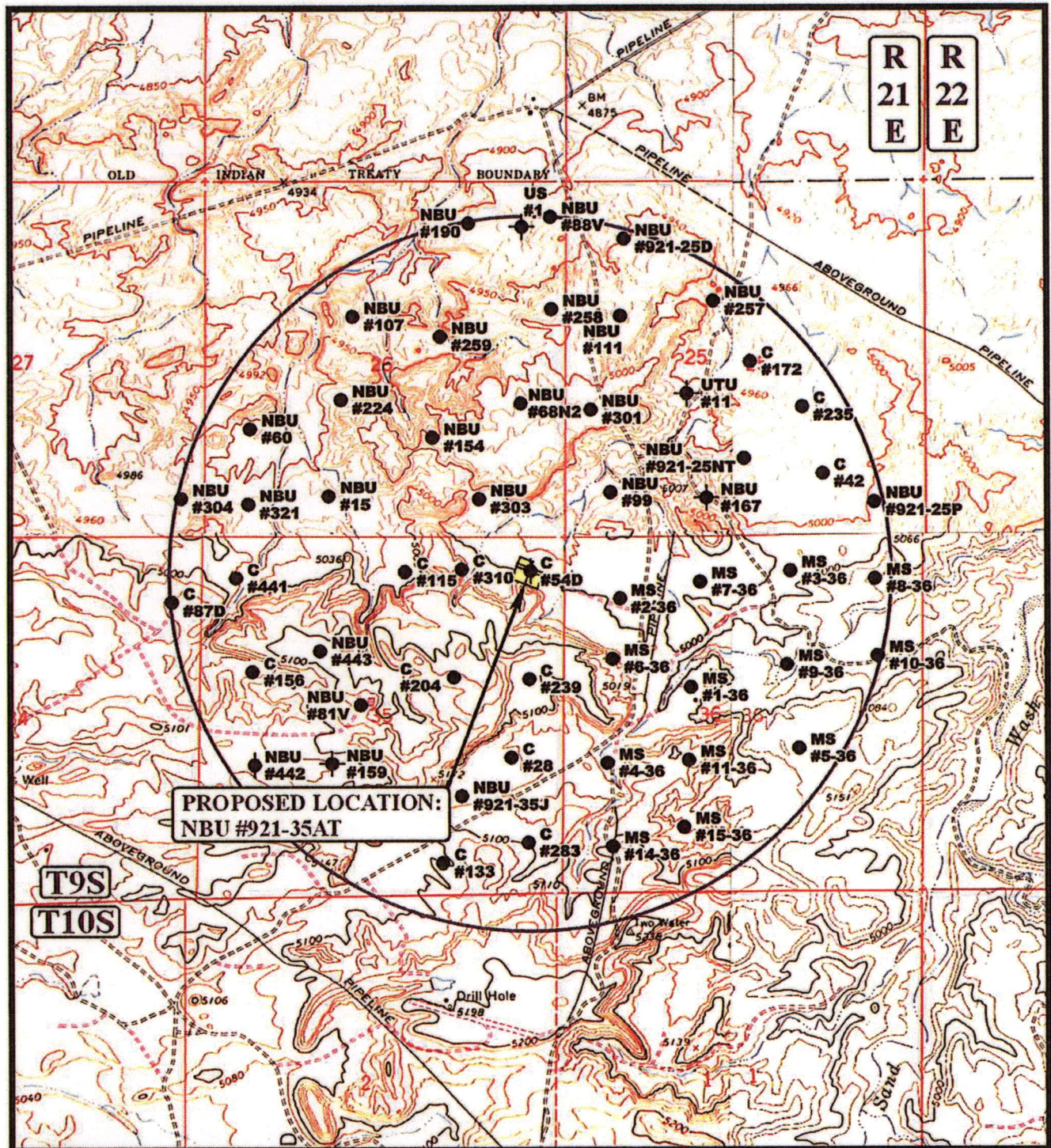
**TOPOGRAPHIC  
MAP**

05 16 08  
MONTH DAY YEAR

**B  
TOPO**

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ○ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ◆ SHUT IN WELLS   | ◆ TEMPORARILY ABANDONED |

**Kerr-McGee Oil & Gas Onshore LP**

**NBU #921-35AT**  
**SECTION 35, T9S, R21E, S.L.B.&M.**  
**504' FNL 524' FEL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

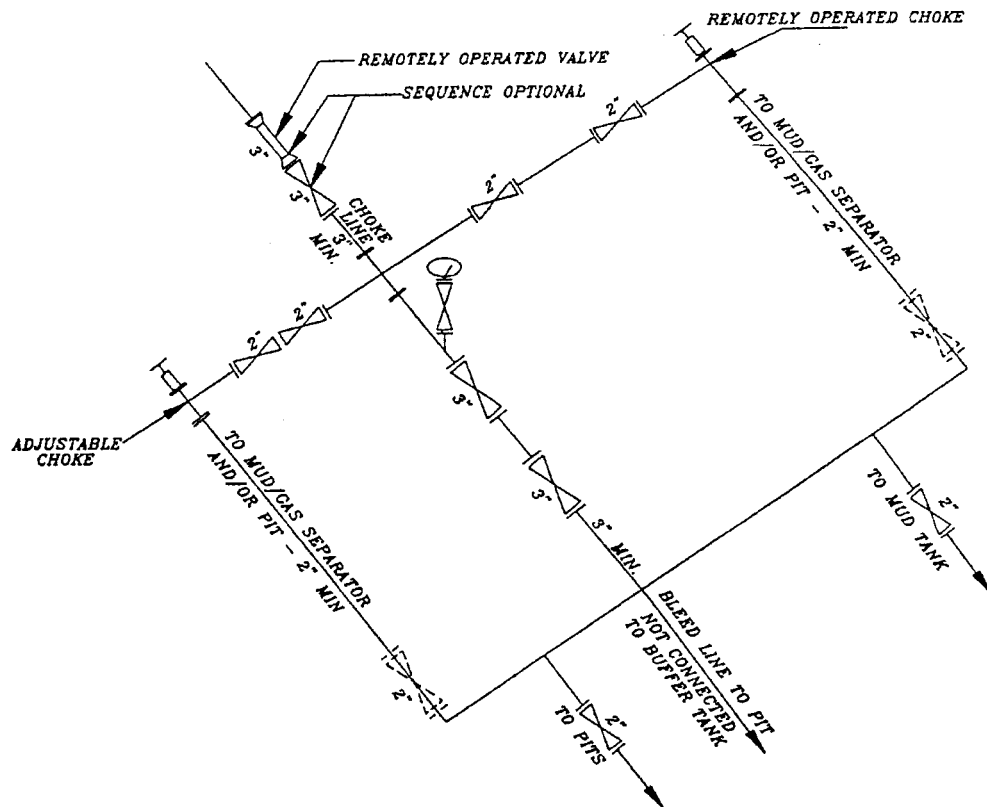
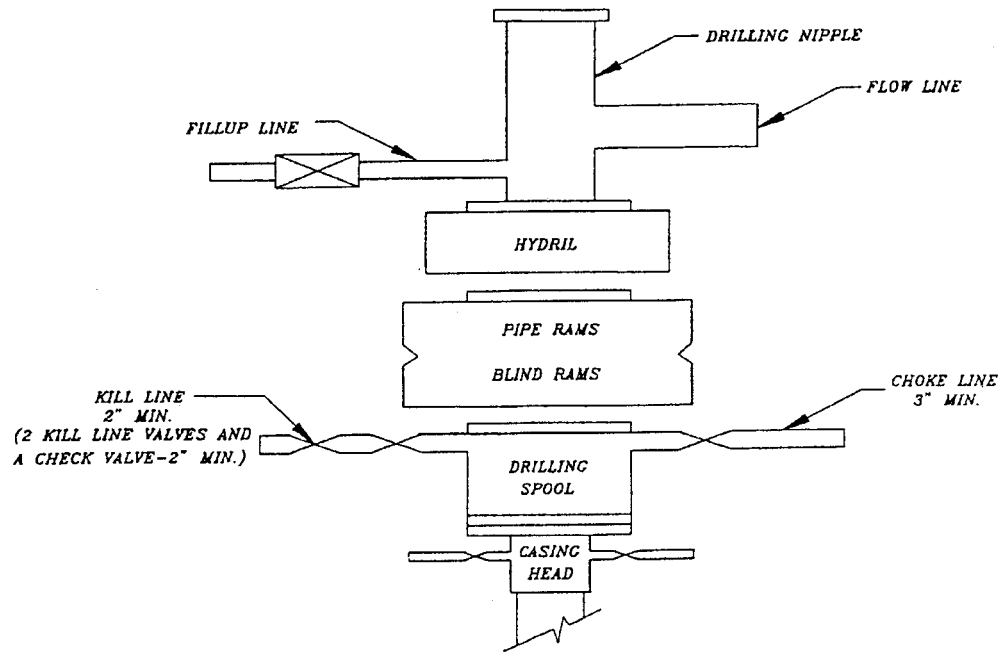


**TOPOGRAPHIC MAP** **05 16 08**  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/05/2008

API NO. ASSIGNED: 43-047-40114

WELL NAME: NBU 921-35AT

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

PHONE NUMBER: 720-929-6666

CONTACT: RALEEN WHITE

PROPOSED LOCATION:

NENE 35 090S 210E

SURFACE: 0504 FNL 0524 FEL

BOTTOM: 0504 FNL 0524 FEL

COUNTY: UINTAH

LATITUDE: 39.99835 LONGITUDE: -109.5106

UTM SURF EASTINGS: 627145 NORTHINGS: 4428427

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

**Tech Review**

**Initials**

**Date**

Engineering

DWD

7/11/08

Geology

Surface

LEASE TYPE: 3 - State

LEASE NUMBER: ML-22582

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 22013542 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. 43-8496 )

☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_\_ R649-2-3.

Unit: NATURAL BUTTES

\_\_\_\_ R649-3-2. General

Siting: 460' From Qtr/Qtr & 920' Between Wells

\_\_\_\_ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-1999

Siting: 460' from edge of uncomm. tract

\_\_\_\_ R649-3-11. Directional Drill

COMMENTS:

Natural Buttes (06-18-05)

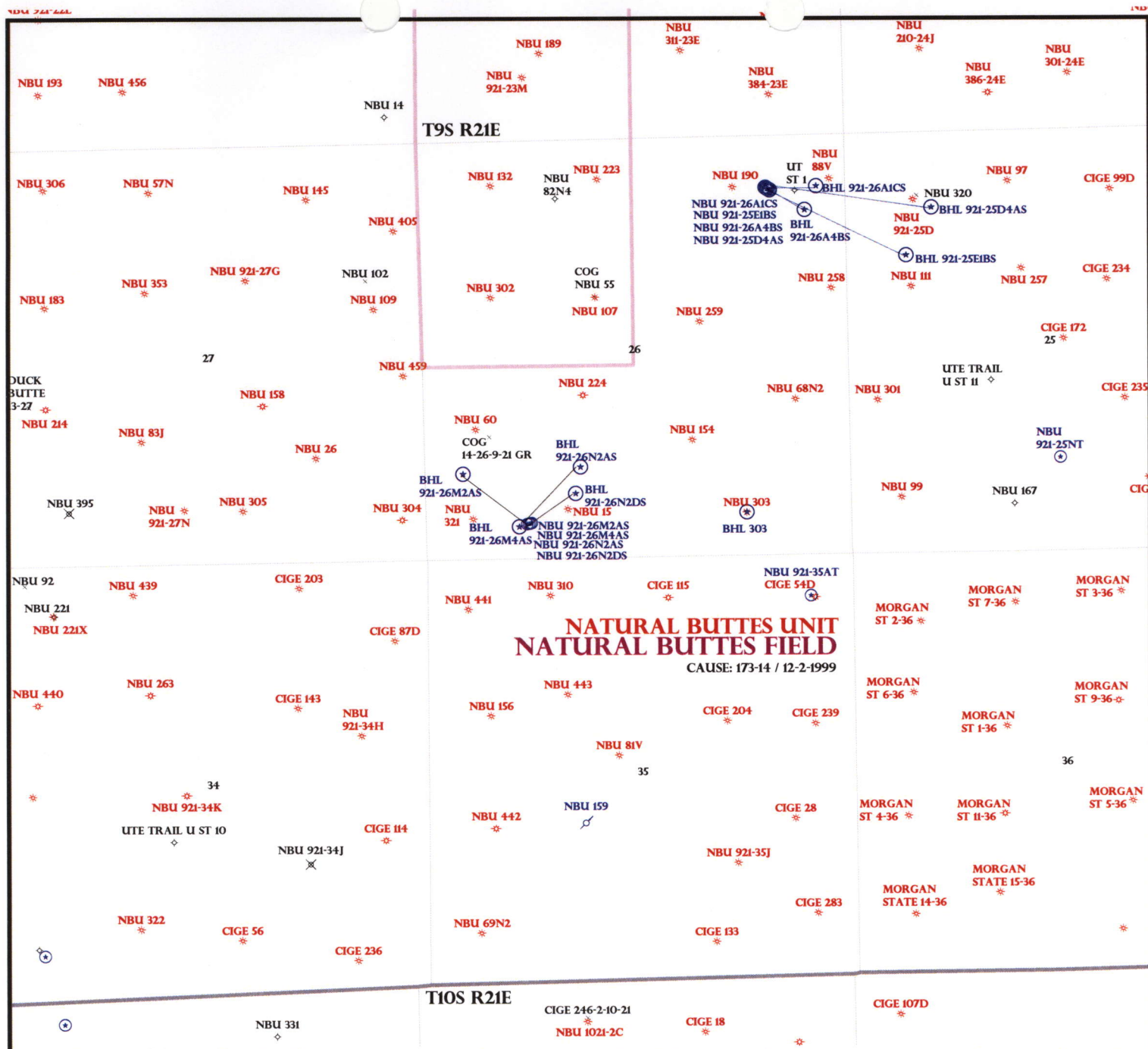
STIPULATIONS:

1 - STATEMENT OF BASIS

2 - OIL SHALE

3 - Surface Csg Cont Strip





## NATURAL BUTTES UNIT NATURAL BUTTES FIELD

CAUSE: 173-14 / 12-2-1999

OPERATOR: KERR MCGEE O&G INC (N2995)

SEC: 26,35 T.9S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

**Field Status**

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**Unit Status**

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



PREPARED BY: DIANA MASON  
DATE: 09-JUNE-2008

# Application for Permit to Drill

## Statement of Basis

8/20/2008

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
804	43-047-40114-00-00		GW	S	No
<b>Operator</b>	KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>Surface Owner-APD</b>		
<b>Well Name</b>	NBU 921-35AT		<b>Unit</b>	NATURAL BUTTES	
<b>Field</b>	NATURAL BUTTES		<b>Type of Work</b>		
<b>Location</b>	NENE 35 9S 21E S 504 FNL 524 FEL GPS Coord (UTM) 627145E 4428427N				

### Geologic Statement of Basis

Kerr McGee proposes to set 2,400' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,000'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill

8/20/2008

**APD Evaluator**

**Date / Time**

### Surface Statement of Basis

The proposed NBU 921-35AT gas well is on the existing location of the CIGE 54D gas well. This well is planned to be plugged. The reserve pit corner A is within a partial fill. An embankment will be constructed from the reserve pit spoils at this corner. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

Floyd Bartlett

6/18/2008

**Onsite Evaluator**

**Date / Time**

### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** KERR-MCGEE OIL & GAS ONSHORE, L.P.  
**Well Name** NBU 921-35AT  
**API Number** 43-047-40114-0 **APD No** 804 **Field/Unit** NATURAL BUTTES  
**Location:** 1/4,1/4 NENE **Sec** 35 **Tw** 9S **Rng** 21E 504 FNL 524 FEL  
**GPS Coord (UTM)** **Surface Owner**

### **Participants**

Floyd Bartlett and David Hackford (DOGM), Jim Davis (SITLA), Raleen White, Kevin McIntyre, Clay Einerson and Tony Kzneck (Kerr McGee) and David Kay (Uintah Engineering and Land Surveying).

### **Regional/Local Setting & Topography**

The proposed NBU 921-35AT gas well is on the existing location of the CIGE 54D gas well. This well is planned to be plugged. The reserve pit corner A is within a partial fill. An embankment will be constructed from the reserve pit spoils at this corner. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

### **Surface Use Plan**

#### **Current Surface Use**

Existing Well Pad

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Length</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
--------------	-----------------	---------------	---------------------------	--------------------------

#### **Ancillary Facilities**

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

#### **Affected Floodplains and/or Wetland**

#### **Flora / Fauna**

Existing Well Pad

#### **Soil Type and Characteristics**

#### **Erosion Issues**

#### **Sedimentation Issues**

#### **Site Stability Issues** N

#### **Drainage Diversion Required**

#### **Berm Required?**

#### **Erosion Sedimentation Control Required?**

Paleo Survey Run?

Paleo Potential Observed?

Cultural Survey Run?

Cultural Resources?

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score**

25

**Sensitivity Level**

**Characteristics / Requirements**

A 100' x 200' x 10' deep reserve pit is planned in the northwest corner of the location. It is partially in a fill. A 15' wide bench is planned around the outside.

**Closed Loop Mud Required?** N

**Liner Required?** Y

**Liner Thickness** 20

**Pit Underlayment Required?** Y

**Other Observations / Comments**

Floyd Bartlett

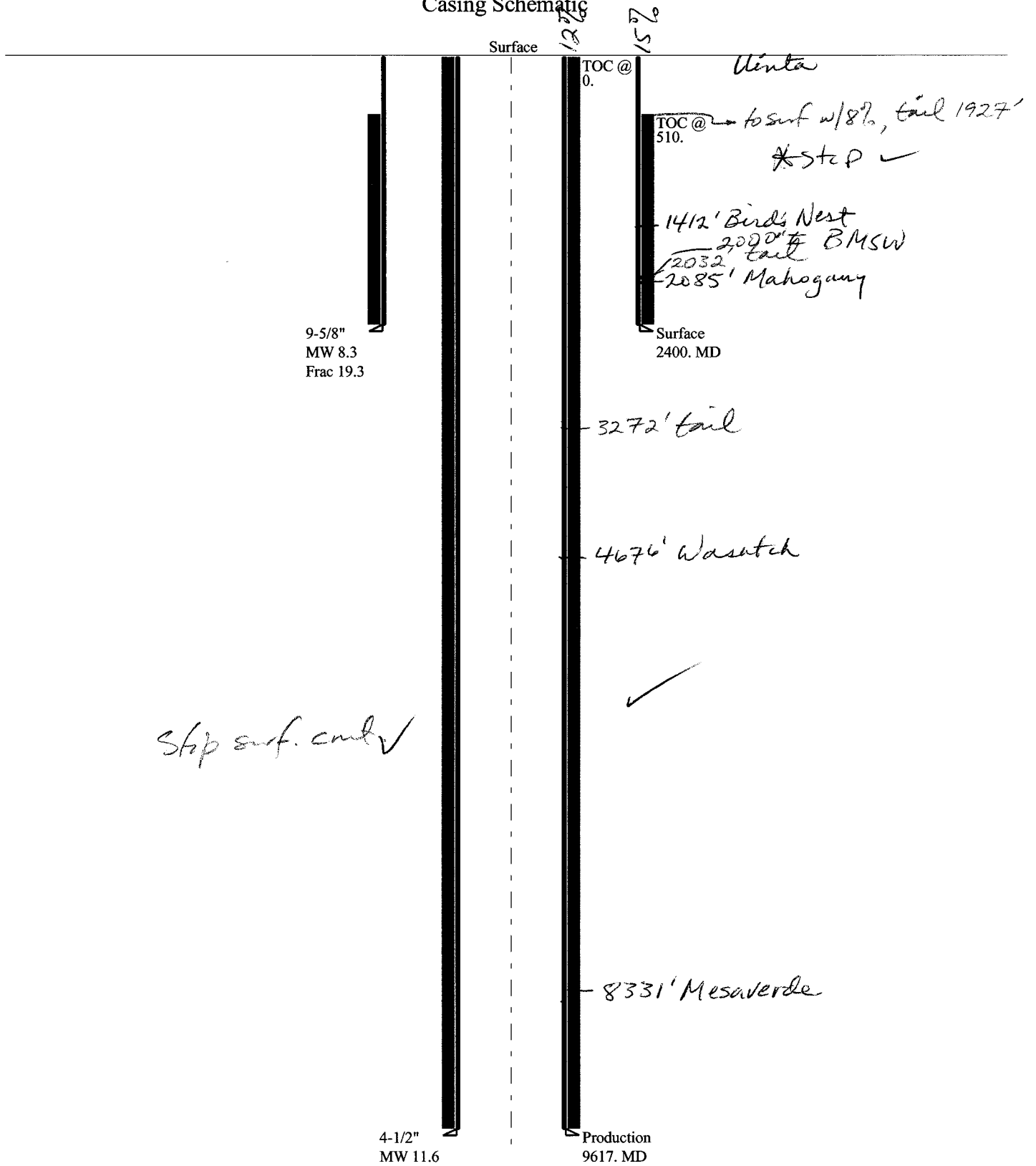
**Evaluator**

6/18/2008

**Date / Time**

43047401140000 NBU 921-35AT

Casing Schematic



Well name:	<b>43047401140000 NBU 921-35AT</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Surface	Project ID: 43-047-40114-0000
Location:	Uintah County, Utah	

**Design parameters:**
**Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 109 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,300 ft

Cement top: 510 ft

**Burst**

Max anticipated surface pressure: 2,112 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,400 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 2,104 ft

Completion type is subs  
**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,617 ft  
Next mud weight: 11.800 ppg  
Next setting BHP: 5,895 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,400 ft  
Injection pressure: 2,400 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2400	9.625	36.00	J-55	LT&C	2400	2400	8.796	1041.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1039	2020	1.945	2400	3520	1.47	76	453	5.98 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: September 4, 2008  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2400 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:

**43047401140000 NBU 921-35AT**Operator: **Kerr McGee Oil & Gas Onshore L.P.**String type: **Production**

Project ID:

**43-047-40114-0000**Location: **Uintah County, Utah****Design parameters:****Collapse**Mud weight: 11.600 ppg  
Internal fluid density: 2.330 ppg**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 210 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

**Burst**Max anticipated surface pressure: 3,679 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,795 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)Completion type is subs  
**Non-directional string.**Tension is based on buoyed weight.  
Neutral point: 7,949 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9617	4.5	11.60	I-80	LT&C	9617	9617	3.875	839.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4631	6360	1.373	5795	7780	1.34	92	212	2.30 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & MineralsPhone: (801) 538-5357  
FAX: (801) 359-3940Date: September 4, 2008  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 9617 ft, a mud weight of 11.6 ppg. An internal gradient of .121 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# BOPE REVIEW

Kerr-McGee NBU 921-35AT API 43-047-40114-0000

## INPUT

Well Name

Kerr-McGee NBU 921-35AT API 43-047-40114-0000			
String 1	String 2		
9 5/8	4 1/2		
2400	9617		
40	2400		
8.4	11.6		
500	5000		
3520	7780		
5963	3847	11.9	2.7 ppg

Casing Size (")

Setting Depth (TVD)

Previous Shoe Setting Depth (TVD)

Max Mud Weight (ppg)

BOPE Proposed (psi)

Casing Internal Yield (psi)

Operators Max Anticipated Pressure (psi)

## Calculations

String 1 9 5/8 "

Max BHP [psi] .052\*Setting Depth\*MW = 1048

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi] Max BHP-(0.12\*Setting Depth) = 760

NO Air Drill to surface shoe with diverter

MASP (Gas/Mud) [psi] Max BHP-(0.22\*Setting Depth) = 520

NO - Reasonable Depth

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 529

NO No expected pressure

Required Casing/BOPE Test Pressure

2400 psi

\*Max Pressure Allowed @ Previous Casing Shoe =

40 psi

\*Assumes 1psi/ft frac gradient

## Calculations

String 2 4 1/2 "

Max BHP [psi] .052\*Setting Depth\*MW = 5801

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi] Max BHP-(0.12\*Setting Depth) = 4647

YES ✓

MASP (Gas/Mud) [psi] Max BHP-(0.22\*Setting Depth) = 3685

YES

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 4213

NO Reasonable

Required Casing/BOPE Test Pressure

5000 psi

\*Max Pressure Allowed @ Previous Casing Shoe =

2400 psi

\*Assumes 1psi/ft frac gradient



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

June 9, 2008

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-40110	NBU 921-26N2AS Sec 26	T09S R21E 0463 FSL 1302 FWL
	BHL Sec 26	T09S R21E 1160 FSL 1940 FWL
43-047-40111	NBU 921-26M4AS Sec 26	T09S R21E 0458 FSL 1282 FWL
	BHL Sec 26	T09S R21E 0425 FSL 1165 FWL
43-047-40112	NBU 921-26N2DS Sec 26	T09S R21E 0468 FSL 1321 FWL
	BHL Sec 26	T09S R21E 0830 FSL 1875 FWL
43-047-40113	NBU 921-26M2AS Sec 26	T09S R21E 0454 FSL 1263 FWL
	BHL Sec 26	T09S R21E 1095 FSL 0475 FWL
43-047-40114	NBU 921-35AT	Sec 35 T09S R21E 0504 FNL 0524 FEL
43-047-40120	NBU 920-15FT	Sec 15 T09S R20E 1964 FNL 1991 FWL
43-047-40119	NBU 922-29J	Sec 29 T09S R22E 2383 FSL 1736 FEL
43-047-40115	NBU 922-29FT	Sec 29 T09S R22E 2323 FNL 2022 FWL
43-047-40116	NBU 922-32O1T	Sec 32 T09S R22E 0900 FSL 1915 FEL
43-047-40117	NBU 922-32MT	Sec 32 T09S R22E 1153 FSL 0717 FWL
43-047-40118	NBU 922-36NT	Sec 36 T09S R22E 1118 FSL 2308 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:6-9-08

**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana; Raleen.White@anadarko.com  
**Date:** 8/7/2008 11:04 AM  
**Subject:** Kerr McGee Approvals

The following wells have been granted approval by the trust lands Administration, including arch and paleo clearance.

4304740169	NBU 921-26IT	Kerr-McGee Oil & Gas	Natural Buttes	NESE	26	090S	210E
4304740170	NBU 921-27KT	Kerr-McGee Oil & Gas	Natural Buttes	NESW	27	090S	210E
4304740171	NBU 921-27MT	Kerr-McGee Oil & Gas	Natural Buttes	SWSW	27	090S	210E
4304740172	NBU 921-27OT	Kerr-McGee Oil & Gas	Natural Buttes	SWSE	27	090S	210E
4304740173	NBU 921-27HT	Kerr-McGee Oil & Gas	Natural Buttes	SENE	27	090S	210E
4304740174	NBU 921-27LT	Kerr-McGee Oil & Gas	Natural Buttes	NWSW	27	090S	210E
4304740176	NBU 922-29NT	Kerr-McGee Oil & Gas	Natural Buttes	SESW	29	090S	220E
4304740177	NBU 922-29KT	Kerr-McGee Oil & Gas	Natural Buttes	NESW	29	090S	220E
4304740178	NBU 922-31BT	Kerr-McGee Oil & Gas	Natural Buttes	NWNE	31	090S	220E
4304740179	NBU 922-32ET	Kerr-McGee Oil & Gas	Natural Buttes	SWNW	32	090S	220E
4304740114	NBU 921-35AT	Kerr-McGee Oil & Gas	Natural Buttes	NENE	35	090S	210E
4304740146	NBU 922-29LT	Kerr-McGee Oil & Gas	Natural Buttes	NWSW	29	090S	220E

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

September 11, 2008

Kerr-McGee Oil & Gas Onshore, LP  
P O Box 173779  
Denver, CO 80217-3779

Re: NBU 921-35AT Well, 504' FNL, 524' FEL, NE NE, Sec. 35, T. 9 South, R. 21 East,  
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40114.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Field Office  
SITLA



**Operator:** Kerr-McGee Oil & Gas Onshore, LP

**Well Name & Number** NBU 921-35AT

**API Number:** 43-047-40114

**Lease:** ML-22582

**Location:** NE NE      **Sec.** 35      **T.** 9 South      **R.** 21 East

### **Conditions of Approval**

#### **1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at:      (801) 538-5338 office      (801) 942-0871 home
- Carol Daniels at:      (801) 538-5284 office
- Dustin Doucet at:      (801) 538-5281 office      (801) 733-0983 home

#### **3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: NBU 921-35AT

Api No: 43-047-40114 Lease Type: STATE

Section 35 Township 09S Range 21E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

### **SPUDDED:**

Date 07/10/09

Time 9:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by KENNY MORRIS

Telephone # (435) 828-1691

Date 07/13/2009 Signed CHD

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22582
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-35AT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0504 FNL 0524 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047401140000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 7/14/2009			

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**  
 MIRU PROPETRO AIR RIG ON 07/11/2009. DRILLED 12-1/4" SURFACE HOLE TO 2440'. RAN 9-5/8" 36# J-55 SURFACE CASING. CMT W/220SX LEAD PRE CLASS G @ 11 PPG 3.82 YIELD. TAILED CMT W/200SX PREM CLASS G @ 15.8 PPG 1.15 YIELD. TOP OUT W/250 SX PREM CLASS G @ 15.8 PPG 1.15 YIELD. WORT

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 July 22, 2009

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/22/2009	



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR McGEE OIL & GAS ONSHORE LP  
Address: P.O. Box 173779  
city DENVER  
state CO zip 80217

Operator Account Number: N 2995  
Phone Number: (720) 929-6100

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740114	NBU 921-35AT		NENE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	7/10/2009		<u>7/30/09</u>		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <u>WSTMV/D</u> SPUD WELL LOCATION ON 07/10/2009 AT 09:00 HRS.							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**RECEIVED**

JUL 21 2009

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

DIV. OF OIL, GAS & MINING

Name (Please Print)

Signature

REGULATORY ANALYST

Title

7/21/2009

Date

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-35AT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0504 FNL 0524 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047401140000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 9/7/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>		
FINISHED DRILLING FROM 2440' TO 9594' ON 09/06/2009. RAN 4 1/2"		
11.6# I-80 PRODUCTION CSG. LEAD CMT W/500 SX PREM LITE II @11.7 PP		
2.50 YIELD. TAILED CMT W/1360 SX 50/50 POZ @14.3 PPG 1.31 YIELD.		
DROP PLUG & DISPLACE W/148.5 BBLS WATER @100 BBL INTO TAIL. LOSS		
ALL RETURNS NEVER GOT THEM BACK. FINISH JOB W/2500 PSI LIFT		
BUMPED PLUG @3020 PSI FLOATS HELD W/1.75 BBLS BACK TO TRUCK		
NIPPLE DOWN BOPE CLEAN PITS. RELEASED PIONEER RIG 69 ON 09/08/2009		
AT 0400 HRS.		
<div style="text-align: right;"> <b>Accepted by the</b>  <b>Utah Division of</b>  <b>Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b>          September 10, 2009       </div>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/10/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-35AT
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<b>COUNTY:</b> Uintah		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/7/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
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	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/7/2009 AT 10:00 A.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> November 10, 2009		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/10/2009	

# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 8/31/2009		End Date: 9/8/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/11/2009	0:00 - 11:00	11.00	MIRU	21	E	P		INSTALL PIT LINER
	11:00 - 13:00	2.00	MIRU	01	B	P		RURT
	13:00 - 14:30	1.50	MIRU	21	D	P		INSTALL FRAC TANK & FILL
	14:30 - 15:30	1.00	MIRU	21	E	P		HAULING WATER TO RESERVE PIT
	15:30 - 17:00	1.50	DRLSUR	02	A	P		HAMMER DRILL F/40' TO 120'
	17:00 - 20:00	3.00	DRLSUR	06	A	P		POOH,P/U PDC & DIR TOOLS
	20:00 - 0:00	4.00	DRLSUR	02	C	P		DIR DRILL F/120 TO 300
7/12/2009	0:00 - 11:00	11.00	DRLSUR	02	D	P		DIR DRILL F/300 TO 1130 ,SURVEY EVERY 90
	11:00 - 11:30	0.50	DRLSUR	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLSUR	02	D	P		DIR DRILL F/1130 TO 1700 ,SURVEY 90'
7/13/2009	0:00 - 13:00	13.00	DRLSUR	02	D	P		DIR DRILL F/1700 TO 2440,FINAL SURVEY 1.19 @255 AZI
	13:00 - 14:00	1.00	DRLSUR	05	C	P		CIRC F/LDDP
	14:00 - 18:00	4.00	DRLSUR	06	A	P		LDDP & DIR TOOLS
	18:00 - 21:00	3.00	CSG	12	C	P		RUN 20 JTS,FILL CSG,RUN 22 MORE ,FE FAILED
	21:00 - 0:00	3.00	CSG	19	A	Z		TRY CIRC FE,1500 PSI WILL NOT CIRC,LAY DOWN CSG
7/14/2009	0:00 - 12:00	12.00	CSG	06	D	Z		LAY DOWN CSG,PLUGGED BTM JT W/FAILED FE
	12:00 - 15:00	3.00	CSG	12	C	P		RUN 55 JTS #36 9.625 CSG TO 2410'
	15:00 - 18:00	3.00	RDMO	01	E	P		RDRT ,RELEASE RIG 18:00 7/14/09
	18:00 - 22:00	4.00	CSG	12	E	P		PUMP 220SX LEAD,200SX TAIL,DISP 182,BBLS,LAND PLUG FLOATS,HELD,TOP OUT W/250 TAIL CEMENT,NO CEMENT TO SURFACE WORT
8/31/2009	22:00 - 0:00	2.00	SUSPEN	01	F	P		RDRT
	0:00 - 6:00	6.00	DRLPRO	01	E	P		HELD SAFETY MEETING.MOVE TO NBU 921-35AT
	6:00 - 14:30	8.50	DRLPRO	01	F	P		RAISE DERRICK OFF CARRIER,SCOPE SUB & DERRICK. RURT
	14:30 - 22:00	7.50	DRLPRO	01	B	P		NIPPLE UP BOP,CHOKE,FLARE LINES
9/1/2009	22:00 - 0:00	2.00	DRLPRO	14	A	P		NIPPLE UP BOP
	0:00 - 3:00	3.00	DRLPRO	14	A	P		HELD SAFETY MEETING. RIG UP B&C QUICK TEST. TEST PIPE,BLIND RAMS,CHOKE & ALL FLOOR RELATED VALVES 250 LOW TO 5000 PSI HIGH, TEST HYDRILL 250 LOW TO 2500 PSI HIGH, TEST CSG TO 1500 PSI & HOLD 30 MIN.RIG DOWN TESTER.
	3:00 - 6:30	3.50	DRLPRO	15	A	P		HELD SAFETY MEETING. RIG UP KIMZEY & PICK UP BHA,DIR TOOLS & 55 JTS DP TO 2269' RIG DOWN KIMZEY.
	6:30 - 10:30	4.00	DRLPRO	06	A	P		SLIP & CUT DRLG LINE
	10:30 - 11:30	1.00	DRLPRO	09	A	P		RIG SERV,INSTALL ROTATING HEAD,BREAK CIRC & DO PRESPUD RIG INSPECTION.
	11:30 - 12:30	1.00	DRLPRO	07	A	P		DRILL CMT & FLOAT EQUIPMENT ROTARY SPUD @ 14:00 09/01/2009 CMT TOP 2300' FLOAT TOP 2375' SHOE 2414'
	12:30 - 14:00	1.50	DRLPRO	02	F	P		DRILL & SURVEY 2454' - 3892' 1438' @ 143.8 FPH, WOB 16-18, RPM 45, MRPM 98, SPM 125, GPM 473, PU/SO/ROT 105/85/100, ON/OFF BOTTOM PSI 1630'/1290', DIFF PSI 340, SWEEPING HOLE
	14:00 - 0:00	10.00	DRLPRO	02	D	P		

RECEIVED November 10, 2009

# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: PIONEER 69/69, PROPETRO/	
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Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/2/2009	0:00 - 8:00	8.00	DRLPRO	02	D	P		DRILL 3892'-5062', 1170' @ 146.3' PH, CIRC RESERVE PIT, WOB 16-18, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 145/125/135, ON/OFF 1500-1350, DIFF 150-350, SWEEPING WITH GEL SWEEPS & SAWDUST, POLY SERVICE RIG
	8:00 - 8:30	0.50	DRLPRO	07	A	P		
	8:30 - 0:00	15.50	DRLPRO	02	B	P		DRLG F/ 5062' TO 6643', 1581' @ 102' PH, CIRC RESERVE PIT, WOB 16-18, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 165/140/152, ON/OFF 1630/1400, DIFF 150-300, SWEEPING HOLE W/ GEL-SAWDUST & POLY
9/3/2009	0:00 - 8:00	8.00	DRLPRO	02	B	P		DRLG F/ 6630 TO 7211', 581' @ 72.6' PH, WOB 18-20, RPM 45-50, MM 98, SPM 125, GPM 473, PU/SO/ROT 165/140/152, ON/OFF 1700/1450, DIFF 150-300, GEL & SAWDUST, POLY SWEEPS, 1700 BGG NO FLARE
	8:00 - 8:30	0.50	DRLPRO	07	A	P		SERVICE RIG
	8:30 - 0:00	15.50	DRLPRO	02	B	P		DRLG F/ 7211' TO 8317', 1106' @ 71.4' PH, WOB 18-20, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 185/162/174, ON/OFF 2250-2000, START MUD UP @ 8200, MW 9.5 34 VIS LCM 10%, LOST @ 400 BBLS TO FORMATION,
9/4/2009	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRLG F/ 8317 TO 9027', 710' @ 52.6' PH, WOB 20-22, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 185/162/174, ON/OFF 2250/2000 DIFF 150-300, MW 10.9, VIS 38, LCM 10%
	13:30 - 14:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	14:00 - 0:00	10.00	DRLPRO	06	A	P		MIX PILL,PUMP & POOH,L/D DIR TOOLS & BENT MM, P/U MM & BIT, TIH, NO TIGHT SPOTS
9/5/2009	0:00 - 0:30	0.50	DRLPRO	03	D	P		WASH 75' TO BOTTOM TO MAKE FOR DIR TOOLS, 5' FILL
	0:30 - 3:30	3.00	DRLPRO	02	B	P		BREAK IN BIT #2, DRLG F/ 9027 TO 9128, 101' @ 33.6' PH, MW 11.2, VIS 42, LCM 12 %, WOB 18, RPM 45, MM 65, SPM 115, GPM 435, PU/SO/ROT 185/162/174, ON/OFF 2100/1850, DIFF 150-300, BGG 2500 W/ 5/10' FLARE,
	3:30 - 7:30	4.00	DRLPRO	08	A	Z		REPAIR ROT DRIVE LINE, SHEARED BOLTS ON U-JOINT
9/6/2009	7:30 - 10:30	3.00	DRLPRO	02	B	P		DRLG F/ 9128 TO 9233
	10:30 - 11:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	11:00 - 19:00	8.00	DRLPRO	02	B	P		DRLG F/ 9233 TO 9454
	19:00 - 0:00	5.00	DRLPRO	06	A	P		TFNB, TIGHT 12-20 OVER FIRST 1000' & 5800
	0:00 - 5:00	5.00	DRLPRO	06	A	P		TIH W/ BIT #3, TIGHT SPOT @ 5800' WORKED CLEAN
	5:00 - 8:30	3.50	DRLPRO	22	A	X		P/U KELLY 120' FROM BOTTOM ATTEMPT TO CIRC, PACKED OFF, WORK STUCK PIPE FREE
	8:30 - 10:00	1.50	DRLPRO	06	F	X		POOH TIGHT 19 STANDS
	10:00 - 12:30	2.50	DRLPRO	05	F	X		CIRC & BUILD VOLUME RAISE MW & VIS TO CLEAN HOLE
	12:30 - 13:30	1.00	DRLPRO	06	F	X		TIH TO 9075'
	13:30 - 16:00	2.50	DRLPRO	03	E	X		WASH & REAM 380' TO BOTTOM, CLEAN UP TIGHT HOLE
	16:00 - 20:30	4.50	DRLPRO	02	B	P		DRLG FROM 9454 TO 9594', 140' @ 31' PH,
9/7/2009	20:30 - 22:00	1.50	DRLPRO	05	C	P		PUMP HIGH VIS SWEEP, RAISE MW TO 11.6 TO DROP BGG F/ SHORT TRIP
	22:00 - 23:00	1.00	DRLPRO	06	E	P		SHORT TRIP 600' TO LAST 2 BIT TRIPS
	23:00 - 0:00	1.00	DRLPRO	05	C	P		CIRC & COND HOLE F/ LDDS, PUMP HIGH VIS SWEEP
9/7/2009	0:00 - 2:00	2.00	DRLPRO	06	B	P		HPJSM W/ RIG & L/D CREWS, R/U & LDDS

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**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 8/31/2009		End Date: 9/8/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)			UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:00 - 3:00	1.00	DRLPRO	08	A	Z		REPLACE AIR LINE TO #2 CLUTCH DW MOTOR
	3:00 - 9:00	6.00	DRLPRO	06	B	P		LDDP, BREAK KELLY, L/D BHA, PULL WEAR BUSHING, R/D
	9:00 - 13:00	4.00	DRLPRO	11	D	P		HPJSM W/ RIG & BAKER LOGGING, R/U & RUN TRIPLE COMBO TO 9594', R/D
	13:00 - 19:30	6.50	DRLPRO	12	C	P		HPJSM W/ RIG & CASING CREWS, R/U & RUN 9588' OF 4.5" I-80 8RD LTC PROD CASING, R/D
	19:30 - 21:00	1.50	DRLPRO	05	D	P		CIRC OUT GAS TO CEMENT
	21:00 - 0:00	3.00	DRLPRO	12	E	P		HPJSM W RIG & CEMENT CREWS, PSI TEST LINES TO 4500 PSI, PUMPED 40 BBLS WATER, LEAD 500 SXS 11.7 PPG 2.5 YLD 14.24 GPS, TAIL 1360 SXS 14.3 PPG, 1.31 YLD 5.9 GPS, DROPE PLUG & DISPLACE W/148.5 BBLS WATER, @ 100 BBLS INTO TAIL LOST ALL RETURNS, NEVER GOT THEM BACK, FINISH JOB W/ 2500 PSI LIFT, BUMPED PLUG @ 3020 PSI FLOATS HELD W/ 1.75 BBLS BACK TO TRUCK, TOT BBLS PUMPED 728.5
9/8/2009	0:00 - 4:00	4.00	DRLPRO	01	E	P		N/D BOPE, CLEAN PITS, RELEASE RIG @ 04:00 9/8/09

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# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT			Rig Name No: MILES-GRAY 1/1
Event: COMPLETION		Start Date: 11/1/2009		End Date: 11/5/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/1/2009	13:00 - 16:00	3.00	COMP	30		P		ROAD RIG FROM NBU 922-36G PAD TO LOC, SPOT RIG AND EQUIP ON LOC, SDFN, JSA-SAFETY MEETING #2, DAY 2
11/2/2009	7:00 - 7:15	0.25	COMP	48		P		N/D WH, N/U BOPS, R/U TBG EQUIP, P/U 3 7/8" BIT TIH W/ 2 3/8" L-80 TBG, TALLY TBG IN HOLE, TAG @ 9531', R/U POWER SWIVEL, BROKE CIRC DN CSG OUT TBG, DRILL OUT WIPING RUBBER AND CEMENT FROM 9531' TO 9545', CIRC WELL CLEAN, R/D POWER SWIVEL, POOH W/ LAY DN 73 JTS ON TRAILER, TOO H W/ 2 3/8" TBG, SHUT WELL IN SDFN, JSA-SAFETY MEETING #3, DAY 3
	7:15 - 17:30	10.25	COMP	31	I	P		
11/3/2009	7:00 - 7:15	0.25	COMP	48		P		N/D BOPS, N/U FRAC VALVE, PRESSURE TEST CSG AND FRAC VALVE TO 7000#, OK R/U SCHLUMBERGER WIRELINE, ( PERF STG #1 ) RIH W/ PERF GUNS, PERF THE MESAVERDE @ 9517'- 9520' 4-SPF, 9396'- 9398' 4-SPF, 9344'- 9348' 4-SPF, 9290'- 9292' 2-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE, 120* PHS, 40 HOLES, SWI, SDFN, JSA-SAFETY MEETING #4, DAY 4 W/ FRAC, WIRELINE AND RIG CREW SCHLUMBERGER PRESSURE TESTED SURFACE LINE TO 8000#, OK ( STG #1 ) WHP = 1834#, BRK DN PERF @ 3781# @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5153#, ISIP = 2520#, F.G. = 0.70, PUMP 3 BBLS 15% HCL AHEAD OF INJ, CALC ALL PERF OPEN, PUMP 1580 BBLS SLK WTR & 60017# OF OTTAWA SAND, ISIP = 3179#, F.G. = 0.77, NPI = 659, MP = 6586#, MR = 51.6 B/M, AP = 4993#, AR = 46.5 B/M, 55017# 30/50 OTTAWA SD, 5000# TLC SD, 160 GALS CLAYTREAT, 33 GALS FRW, 194 GALS NALCO SCALE INHIB, 38 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	7:15 - 9:00	1.75	COMP	33	C	P		
	9:00 - 15:00	6.00	COMP	37	B	P		
11/4/2009	6:30 - 6:45	0.25	COMP	48		P		( STG #2 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 9259', PERF THE MESAVERDE @ 9220'- 9222' 4-SPF, 9141'- 9143' 3-SPF, 9098'- 9100' 3-SPF, 9069'- 9071' 3-SPF, 9020'- 9023' 4-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE, 120* PHS, 38 HOLES, WHP = 2357 #, BRK DN PERF @ 3093 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5089 #, ISIP = 2489 #, F.G. = 0.70, CALC ALL PERF OPEN, PUMP 940 BBLS SLK WTR & 36295 # OTTAWA SAND, ISIP = 3203 #, F.G. = 0.78 , NPI = 714 , MP = 6532 #, MR = 51.8 B/M, AP = 4723 #, AR = 46.1 B/M, 31295 # 30/50 OTTAWA SD, 5000 # TLC SD, 95 GALS CLAYTREAT, 22 GALS FRW, 101 GALS NALCO SCALE INHIB, 20 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	6:45 - 7:00	0.25	COMP	36	E	P		
	7:00 - 7:30	0.50	COMP	36	E	P		
	7:30 - 9:00	1.50	COMP	36	E	P		

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# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 11/1/2009		End Date: 11/5/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 11:00	2.00	COMP	36	E	P		( STG #3 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 9002, PERF THE MESAVERDE @ 8969'- 8972' 4-SPF, 8928'- 8930' 3-SPF, 8887'- 8890' 4-SPF, 8855'- 8856' 3-SPF, 8824'- 8826' 3-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE 120* PHS, 39 HOLES, WHP = 2603 #, BRK DN PERF @ 3367 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5889 #, ISIP = 2774 #, F.G.= 0.74 , CALC ALL PERF OPEN, PUMP 1558 BBLs SLK WTR & 65231 # OTTAWA SAND, ISIP = 2700 #, F.G.= 0.73 , NPI = -74 , MP = 6911#, MR = 51.8 B/M, AP = 4789 #, AR = 48 B/M, 60231 # 30/50 OTTAWA SD, 5000 # TLC SD, 160 GALS CLAYTREAT, 32 GALS FRW, 133 GALS NALCO SCALE INHIB, 38 GALS NALCO BIOCID
	11:00 - 12:15	1.25	COMP	36	E	P		( STG #4 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @8792', PERF THE MESAVERDE @ 8760'- 8762' 4-SPF, 8729'- 8731' 4-SPF, 8700'- 8703' 4-SPF, 8635'- 8637' 3-SPF, 8589'- 8591' 3-SPF, USING 3 3/8" EXP GUNS, 23gm, 120* PHS, 0.36 HOLE, 40 HOLES, WHP = 1795 #, BRK DN PERF @ 3263 # @ 6 B/M, INJ-R = 51.5 B/M, INJ-P = 5607#, ISIP = 2550 #, F.G. = 0.72 , CALC 74% PERF OPEN, PUMP 1015 BBLs SLK WTR & 40039 # OTTAWA SAND, ISIP = 2532 # F.G.= 0.72 , NPI = -18 , MP = 6268 #, MR = 51.7 B/M, AP = 4471 #, AR = 48 B/M, 35039 # 30/50 OTTAWA SD, 5000 # TLC SD, 103 GALS CLAYTREAT, 21 GALS FRW, 103 GALS NALCO SCALE INHIB, 26 GALS NALCO BIOCID, COMMENTS = good job
	12:15 - 13:30	1.25	COMP	36	E	P		( STG # 5 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 8533', PERF THE MESAVERDE @ 8500'- 8503', 8407'- 8411', 8360'- 8362', 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 120* PHS, 36 HOLES, WHP = 1130 #, BRK DN PERF @ 3405 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5560 #, ISIP = 2408 #, F.G.= 0.72 , CALC 77% PERF OPEN, PUMP 722 BBLs SLK WTR & 26524 # OTTAWA SAND, ISIP = 2657 #, F.G.= 0.75 , NPI = 249 , MP = 6013 #, MR = 51.7 B/M, AP = 4557 #, AR = 48 B/M, 21524 # 30/50 OTTAWA SD, 5000 # TLC SD, 73 GALS CLAYTREAT, 15 GALS FRW, 86 GALS NALCO SCALE INHIB, 18 GALS NALCO BIOCID, COMMENTS = GOOD JOB

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# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009	Spud Date: 7/11/2009
Project: UTAH-UINTAH	Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 11/1/2009	End Date: 11/5/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:30 - 15:00	1.50	COMP	36	E	P		( STG #6 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 8225', PERF THE MESAVERDE @ 8192' - 8195' 3-SPF, 8091' - 8095' 4-SPF, 7992' - 7996' 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90* PHS, 41 HOLES, WHP = 1410 #, BRK DN PERF @ 3388 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 4909 #, ISIP = 2039 #, F.G.= 0.68 , CALC 74% PERF OPEN, PUMP 732 BBLS SLK WTR & 26826 # OTTAWA SAND, ISIP = 2664 # F.G. = 0.76 , NPI = 625 , MP = 5854 #, MR = 51.7 B/M, AP = 4294 #, AR = 48 #, 21826 # 30/50 OTTAWA SD, 5000 # TLC SD, 75 GALS CLAYTREAT, 15 GALS FRW, 86 GALS NALCO SCALE INHIB, 18 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	15:00 - 16:30	1.50	COMP	36	E	P		( STG #7 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 7956', PERF THE MESAVERDE @ 7923' - 7926' 4-SPF, 7878' - 7880' 4-SPF, 7836' - 7838' 3-SPF, 7814' - 7816' 3-SPF, 7784' - 7786' 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE 120* PHS, 40 HOLES, WHP = 1253 #, BRK DN PERF @ 2669 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 4814 #, ISIP = 1920 #, F.G.= 0.67 , CALC 73% PERF OPEN, PUMP 878 BBLS SLK WTR & 33887 # OTTAWA SAND, ISIP = 2129 #, F.G.= 0.70 , NPI = 209 , MP = 5571# MR = 51.7 B/M, AP = 3839 #, AR = 48 B/M, 28887 # 30/50 OTTAWA SD, 5000 # TLC SD, 89 GALS CLAYTREAT, 18 GALS FRW, 92 GALS NALCO SCALE INHIB, 19 GALS NALCO BIOCID, GALS NALCO BIOCID, COMMENTS, GOOD JOB
	16:30 - 18:00	1.50	COMP	36	E	P		( STG #8 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 7710', PERF THE MESAVERDE @ 7677' - 7680', 7640' - 7644', 7573' - 7376', 4-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE, 120* PHS, 40 HOLES, WHP = 802 #, BRK DN PERF @ 3813 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 4445 #, ISIP = 1354 #, F.G.= 0.61 , CALC 66% PERF OPEN PUMP 1185 BBLS SLK WTR, & 47726 # OTTAWA SAND, ISIP = 2269#, F.G.= 0.72 , NPI = 915 , MP = 4997 #, MR = 51.8 B/M, AP = 3434 #, AR = 48 B/M, 42726 # 30/50 SAND, 5000 # TLC SAND, 121GALS CLAYTREAT, 24 GALS FRW, 108 GALS NALCO SCALE INHIB, 24 GALS NALCO BIOCID, COMMENTS = GOOD JOB

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# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 11/1/2009		End Date: 11/5/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)			UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 19:30	1.50	COMP	36	E	P		( STG # 9 ) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7470', PERF THE MESAVERDE @ 7435'- 7440' 4-SPF, 7357'- 7360' 3-SPF, 7301'- 7304' 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 41 HOLES, WHP = 630 #, BRK DN PERF @ 3054 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 3944 #, ISIP = 1422 #, F.G. = 0.66 , CALC 81% PERF OPEN, PUMP 1374 BBLS SLK WTR & 59967 # OTTAWA SAND, ISIP = 2351#, F.G. = 0.75 , NPI = 929 , MP = 4639 #, MR = 51.7 B/M, AP = 3249 #, AR = 48 B/M, 54967 # 30/50 OTTAWA SAND, 5000 # TLC SD, 128 GALS CLAYTREAT, 30 GALS FRW, 66 GALS NALCO SCALE INHIB, 34 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	19:30 - 20:30	1.00	COMP	36	E	P		( KILL PLUG ) RIH W/ HALLIBURTON 8K CBP, SER CBP @ 7251', POOH R/D WIRELINE AND FRAC CREW. SHUT WELL IN SDFN,  TOTAL FLUID = 10385 BBLS SLK WTR, TOTAL SAND = 396512 #, TOTAL CLAYTREAT = 1004 GALS, TOTAL FRW = 179 GALS TOTAL NALCO SCALE INHIB = 969 GALS, TOTAL NALCO BIOCID = 235 GALS JSA-SAFETY MEETING #5, DAY 5
11/5/2009	7:00 - 7:15	0.25	COMP	48		P		N/D FRAC VALVE, N/U BOPS, P/U 3 7/8" MILL AND POBS, TIH W/ 2 3/8" TBG, TAG CBP @ 7251', R/U POWER SWIVEL, BROKE CIRC DN TBG OUT CSG.
	7:15 - 10:00	2.75	COMP	31	I	P		

RECEIVED November 10, 2009

# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009	Spud Date: 7/11/2009
Project: UTAH-UINTAH	Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 11/1/2009	End Date: 11/5/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 10:00	0.00	COMP	44	C	P		( DRLG CBP #1 ) 7251', DRILL OUT HALLIBURTON 8K CBP IN 5 MIN, 75 # DIFF, RIH TAG @ 7440', C/O 30' SAND, FCP = 75#,
								( DRLG CBP #2 ) 7470', DRILL OUT HALLIBURTON 8K CBP IN 5 MIN, 25# DIFF, RIH TAG @ 7680', C/O 30' SAND, FCP = 100#,
								( DRLG CBP #3 ) 7710', DRILL OUT HALLIBURTON 8K CBP IN 5 MIN, 100# DIFF, RIH TAG @ 7926', C/O 30' SAND, FCP = 200#,
								( DRLG CBP #4 ) 7956', DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 50# DIFF, RIH TAG @ 8195', C/O 30' SAND, FCP = 250#,
								( DRLG CBP #5 ) 8225', DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 25# DIFF, RIH TAG @ 8500', C/O 30' SAND, FCP = 275#,
								( DRLG CBP #6 ) 8530', DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 25# DIFF, RIH TAG @ 8767', C/O 30' SAND, FCP = 300#,
								( DRLG CBP #7 ) 8797', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 100# DIFF, RIH TAG @ 8972', C/O 30' SAND, FCP = 400#,
								( DRLG CBP #8 ) 9002', DRILL OUT HALLIBURTON 8K CBP IN 20 MIN, 0 # DIFF, RIH TAG @ 9229', C/O 30' SAND, FCP = 400#,
								( DRLG CBP #9 ) 9259', DRILL OUT HALLIBURTON 8K CBP IN 30 MIN, 25# DIFF, RIH TAG @ 9500', C/O 45' SAND TO PBTD 9545', FCP = 400#,
								CIRC WELL CLEAN, R/D POWER SWIVEL, POOH LAY DN 18 JTS ON TRAILER, LAND TBG ON HANGER W 282 JTS 2 3/8" J-55 TBG, EOT @ 8982.50' , R/D FLOOR & TBG EQUIP, N/D BOPS, DROP BALL DN TBG, N/U WH, PUMP OFF BIT SUB @ 2400 #, WAIT 30 MIN FOR BIT TO FALL TO BTM, OPEN WELL UP TO FBT ON 20/64 CHOKE, FTP = 750 #, SICP = 1475 #, TURN WELL OVER TO FBC @ 6:30 PM, W/ 7509 BBLS WTR LTR, AVG 15MIN / PLUG W/ 30' SAND,
								313 JTS OF 2 3/8" L-80 TBG DELV, 282 JTS OF 2 3/8" L-80 TBG LANDED 29 JTS OF 2 3/8" L-80 TBG RETURNED 2 JTS OF 2 3/8" L-80 TBG BAD
								KB = 13.00' HANGER = .83' 282 JTS 2 3/8" L-80 TBG = 8966.47' XN-NIPPLE, POBS = 2.20'
								EOT = 8982.50'
11/6/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 2175#, 20/64" CK, 55 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 6081 BBLS LEFT TO RECOVER: 5904

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**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 11/1/2009		End Date: 11/5/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/7/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 2275#, 20/64" CK, 35 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 7281 BBLS LEFT TO RECOVER: 4704
11/8/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 2175#, 20/64" CK, 25 BWPH, MEDIUM SAND, 2.8 GAS TTL BBLS RECOVERED: 8078 BBLS LEFT TO RECOVER: 3907
	10:00 -		PROD	50				WELL TURNED TO SALE @ 1000 HR ON 11/8/09 - FTP 2850#, CP 2300#, 2300 MCFD, 35 BWPD, 20/64 CK
11/9/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 2050#, 20/64" CK, 25 BWPH, MEDIUM SAND, 2.7 GAS TTL BBLS RECOVERED: 8678 BBLS LEFT TO RECOVER: 3307

**RECEIVED** November 10, 2009

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML 22582

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER \_\_\_\_\_

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
KERR McGEE OIL & GAS ONSHORE LP

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
NBU 921-35AT

3. ADDRESS OF OPERATOR:  
P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:  
(720) 929-6100

9. API NUMBER:  
4304740114

10 FIELD AND POOL, OR WILDCAT  
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: NENE 504 FNL & 524 FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH: 0763 FNL 0484 FEL NENE S-35 TOPS R21E

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:  
NENE 35 9S 21E

12. COUNTY  
UINTAH

13. STATE  
UTAH

14. DATE SPUDDED: 7/10/2009

15. DATE T.D. REACHED: 9/6/2009

16. DATE COMPLETED: 11/7/2009

ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):  
4990' GL

18. TOTAL DEPTH: MD 9,594  
TVD 9,588

19. PLUG BACK T.D.: MD 9,546  
TVD 9,540

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

✓ GR/CBL-HDIL/ZDL/CN

23.

WAS WELL CORED?

NO ☒

YES ☐

(Submit analysis)

WAS DST RUN?

NO ☒

YES ☐

(Submit report)

DIRECTIONAL SURVEY?

NO ☒

YES ☒

(Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,420		670			
7 7/8"	4 1/2 I-80	11.6#		9,588		1860			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,982							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	7,301	7,304		
(B) MESAVERDE	7,357	9,520		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,301 7,304	0.36	12	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
7,357 9,520	0.36	343	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7,301-9,520	PMP 9,985 BBLs SLICK H2O & 396,512 LBS 30/50 SD.

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS

☐ GEOLOGIC REPORT

☐ DST REPORT

☐ DIRECTIONAL SURVEY

☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

☐ CORE ANALYSIS

☐ OTHER: \_\_\_\_\_

30. WELL STATUS:

PROD

RECEIVED

DEC 07 2009

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 11/7/2009	TEST DATE: 11/10/2009	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF: 2,766	WATER – BBL: 448	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,907	CSG. PRESS. 2,623	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,423				
MAHOGANY	2,212				
WASATCH	4,685	7,327			
MESAVERDE	7,406	9,581			

## 35. ADDITIONAL REMARKS (Include plugging procedure)

ATTACHED TO THIS COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND EOWR.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDY LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 12/2/2009

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT		Spud Conductor: 7/10/2009	Spud Date: 7/11/2009
Project: UTAH-UINTAH		Site: NBU 921-35AT	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING		Start Date: 8/31/2009	End Date: 9/8/2009
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/11/2009	0:00 - 11:00	11.00	MIRU	21	E	P		INSTALL PIT LINER
	11:00 - 13:00	2.00	MIRU	01	B	P		RURT
	13:00 - 14:30	1.50	MIRU	21	D	P		INSTALL FRAC TANK & FILL
	14:30 - 15:30	1.00	MIRU	21	E	P		HAULING WATER TO RESERVE PIT
	15:30 - 17:00	1.50	DRLSUR	02	A	P		HAMMER DRILL F/40' TO 120'
	17:00 - 20:00	3.00	DRLSUR	06	A	P		POOH,P/U PDC & DIR TOOLS
	20:00 - 0:00	4.00	DRLSUR	02	C	P		DIR DRILL F/120 TO 300
7/12/2009	0:00 - 11:00	11.00	DRLSUR	02	D	P		DIR DRILL F/300 TO 1130 ,SURVEY EVERY 90
	11:00 - 11:30	0.50	DRLSUR	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLSUR	02	D	P		DIR DRILL F/1130 TO 1700 ,SURVEY 90'
7/13/2009	0:00 - 13:00	13.00	DRLSUR	02	D	P		DIR DRILL F/1700 TO 2440,FINAL SURVEY 1.19 @255 AZI
	13:00 - 14:00	1.00	DRLSUR	05	C	P		CIRC F/LDDP
	14:00 - 18:00	4.00	DRLSUR	06	A	P		LDDP & DIR TOOLS
	18:00 - 21:00	3.00	CSG	12	C	P		RUN 20 JTS,FILL CSG,RUN 22 MORE ,FE FAILED
	21:00 - 0:00	3.00	CSG	19	A	Z		TRY CIRC FE,1500 PSI WILL NOT CIRC,LAY DOWN CSG
7/14/2009	0:00 - 12:00	12.00	CSG	06	D	Z		LAY DOWN CSG,PLUGGED BTM JT W/FAILED FE
	12:00 - 15:00	3.00	CSG	12	C	P		RUN 55 JTS #36 9.625 CSG TO 2410'
	15:00 - 18:00	3.00	RDMO	01	E	P		RDRT ,RELEASE RIG 18:00 7/14/09
	18:00 - 22:00	4.00	CSG	12	E	P		PUMP 220SX LEAD,200SX TAIL,DISP 182,BBLS,LAND PLUG FLOATS,HELD,TOP OUT W/250 TAIL CEMENT,NO CEMENT TO SURFACE
8/31/2009	22:00 - 0:00	2.00	SUSPEN	01	F	P		WORT
	0:00 - 6:00	6.00	DRLPRO	01	E	P		RDRT
	6:00 - 14:30	8.50	DRLPRO	01	F	P		HELD SAFETY MEETING.MOVE TO NBU 921-35AT
	14:30 - 22:00	7.50	DRLPRO	01	B	P		RAISE DERRICK OFF CARRIER,SCOPE SUB & DERRICK. RURT
9/1/2009	22:00 - 0:00	2.00	DRLPRO	14	A	P		NIPPLE UP BOP,CHOKE,FLARE LINES
	0:00 - 3:00	3.00	DRLPRO	14	A	P		NIPPLE UP BOP
	3:00 - 6:30	3.50	DRLPRO	15	A	P		HELD SAFETY MEETING. RIG UP B&C QUICK TEST. TEST PIPE,BLIND RAMS,CHOKE & ALL FLOOR RELATED VALVES 250 LOW TO 5000 PSI HIGH, TEST HYDRILL 250 LOW TO 2500 PSI HIGH, TEST CSG TO 1500 PSI & HOLD 30 MIN.RIG DOWN TESTER.
	6:30 - 10:30	4.00	DRLPRO	06	A	P		HELD SAFETY MEETING. RIG UP KIMZEY & PICK UP BHA,DIR TOOLS & 55 JTS DP TO 2269' RIG DOWN KIMZEY.
	10:30 - 11:30	1.00	DRLPRO	09	A	P		SLIP & CUT DRLG LINE
	11:30 - 12:30	1.00	DRLPRO	07	A	P		RIG SERV,INSTALL ROTATING HEAD,BREAK CIRC & DO PRESPUD RIG INSPECTION.
	12:30 - 14:00	1.50	DRLPRO	02	F	P		DRILL CMT & FLOAT EQUIPMENT ROTARY SPUD @ 14:00 09/01/2009 CMT TOP 2300' FLOAT TOP 2375' SHOE 2414'
	14:00 - 0:00	10.00	DRLPRO	02	D	P		DRILL & SURVEY 2454' - 3892' 1438' @ 143.8 FPH, WOB 16-18, RPM 45, MRPM 98, SPM 125, GPM 473, PU/SO/ROT 105/85/100, ON/OFF BOTTOM PSI 1630'/1290', DIFF PSI 340, SWEEPING HOLE

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 8/31/2009		End Date: 9/8/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/2/2009	0:00 - 8:00	8.00	DRLPRO	02	D	P		DRILL 3892'-5062', 1170' @ 146.3' PH, CIRC RESERVE PIT, WOB 16-18, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 145/125/135, ON/OFF 1500-1350, DIFF 150-350, SWEEPING WITH GEL SWEEPS & SAWDUST, POLY SERVICE RIG
	8:00 - 8:30	0.50	DRLPRO	07	A	P		
	8:30 - 0:00	15.50	DRLPRO	02	B	P		DRLG F/ 5062' TO 6643', 1581' @ 102' PH, CIRC RESERVE PIT, WOB 16-18, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 165/140/152, ON/OFF 1630/1400, DIFF 150-300, SWEEPING HOLE W/ GEL-SAWDUST & POLY
9/3/2009	0:00 - 8:00	8.00	DRLPRO	02	B	P		DRLG F/ 6630 TO 7211', 581' @ 72.6' PH, WOB 18-20, RPM 45-50, MM 98, SPM 125, GPM 473, PU/SO/ROT 165/140/152, ON/OFF 1700/1450, DIFF 150-300, GEL & SAWDUST, POLY SWEEPS, 1700 BGG NO FLARE SERVICE RIG
	8:00 - 8:30	0.50	DRLPRO	07	A	P		
	8:30 - 0:00	15.50	DRLPRO	02	B	P		DRLG F/ 7211' TO 8317', 1106' @ 71.4' PH, WOB 18-20, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 185/162/174, ON/OFF 2250-2000, START MUD UP @ 8200, MW 9.5 34 VIS LCM 10%, LOST @ 400 BBLS TO FORMATION,
9/4/2009	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRLG F/ 8317 TO 9027', 710' @ 52.6' PH, WOB 20-22, RPM 45, MM 98, SPM 125, GPM 473, PU/SO/ROT 185/162/174, ON/OFF 2250/2000 DIFF 150-300, MW 10.9, VIS 38, LCM 10% SERVICE RIG
	13:30 - 14:00	0.50	DRLPRO	07	A	P		
	14:00 - 0:00	10.00	DRLPRO	06	A	P		MIX PILL,PUMP & POOH,L/D DIR TOOLS & BENT MM, P/U MM & BIT, TIH, NO TIGHT SPOTS
9/5/2009	0:00 - 0:30	0.50	DRLPRO	03	D	P		WASH 75' TO BOTTOM TO MAKE FOR DIR TOOLS, 5' FILL
	0:30 - 3:30	3.00	DRLPRO	02	B	P		BREAK IN BIT #2, DRLG F/ 9027 TO 9128, 101' @ 33.6' PH, MW 11.2, VIS 42, LCM 12 %, WOB 18, RPM 45, MM 65, SPM 115, GPM 435, PU/SO/ROT 185/162/174, ON/OFF 2100/1850, DIFF 150-300, BGG 2500 W/ 5/10' FLARE,
	3:30 - 7:30	4.00	DRLPRO	08	A	Z		REPAIR ROT DRIVE LINE, SHEARED BOLTS ON U-JOINT
9/6/2009	7:30 - 10:30	3.00	DRLPRO	02	B	P		DRLG F/ 9128 TO 9233
	10:30 - 11:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	11:00 - 19:00	8.00	DRLPRO	02	B	P		DRLG F/ 9233 TO 9454
	19:00 - 0:00	5.00	DRLPRO	06	A	P		TFNB, TIGHT 12-20 OVER FIRST 1000' & 5800
	0:00 - 5:00	5.00	DRLPRO	06	A	P		TIH W/ BIT #3, TIGHT SPOT @ 5800' WORKED CLEAN
	5:00 - 8:30	3.50	DRLPRO	22	A	X		P/U KELLY 120' FROM BOTTOM ATTEMPT TO CIRC, PACKED OFF, WORK STUCK PIPE FREE
	8:30 - 10:00	1.50	DRLPRO	06	F	X		POOH TIGHT 19 STANDS
	10:00 - 12:30	2.50	DRLPRO	05	F	X		CIRC & BUILD VOLUME RAISE MW & VIS TO CLEAN HOLE
	12:30 - 13:30	1.00	DRLPRO	06	F	X		TIH TO 9075'
	13:30 - 16:00	2.50	DRLPRO	03	E	X		WASH & REAM 380' TO BOTTOM, CLEAN UP TIGHT HOLE
	16:00 - 20:30	4.50	DRLPRO	02	B	P		DRLG FROM 9454 TO 9594', 140' @ 31' PH,
	20:30 - 22:00	1.50	DRLPRO	05	C	P		PUMP HIGH VIS SWEEP, RAISE MW TO 11.6 TO DROP BGG F/ SHORT TRIP
9/7/2009	22:00 - 23:00	1.00	DRLPRO	06	E	P		SHORT TRIP 600' TO LAST 2 BIT TRIPS
	23:00 - 0:00	1.00	DRLPRO	05	C	P		CIRC & COND HOLE F/ LDDS, PUMP HIGH VIS SWEEP
	0:00 - 2:00	2.00	DRLPRO	06	B	P		HPJSM W/ RIG & L/D CREWS, R/U & LDDS



**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 8/31/2009		End Date: 9/8/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:00 - 3:00	1.00	DRLPRO	08	A	Z		REPLACE AIR LINE TO #2 CLUTCH DW MOTOR
	3:00 - 9:00	6.00	DRLPRO	06	B	P		LDDP, BREAK KELLY, L/D BHA, PULL WEAR BUSHING, R/D
	9:00 - 13:00	4.00	DRLPRO	11	D	P		HPJSM W/ RIG & BAKER LOGGING, R/U & RUN TRIPLE COMBO TO 9594', R/D
	13:00 - 19:30	6.50	DRLPRO	12	C	P		HPJSM W/ RIG & CASING CREWS, R/U & RUN 9588' OF 4.5" I-80 8RD LTC PROD CASING, R/D
	19:30 - 21:00	1.50	DRLPRO	05	D	P		CIRC OUT GAS TO CEMENT
	21:00 - 0:00	3.00	DRLPRO	12	E	P		HPJSM W RIG & CEMENT CREWS, PSI TEST LINES TO 4500 PSI, PUMPED 40 BBLS WATER, LEAD 500 SXS 11.7 PPG 2.5 YLD 14.24 GPS, TAIL 1360 SXS 14.3 PPG, 1.31 YLD 5.9 GPS, DROPPED PLUG & DISPLACE W/148.5 BBLS WATER, @ 100 BBLS INTO TAIL LOST ALL RETURNS, NEVER GOT THEM BACK, FINISH JOB W/ 2500 PSI LIFT, BUMPED PLUG @ 3020 PSI FLOATS HELD W/ 1.75 BBLS BACK TO TRUCK, TOT BBLS PUMPED 728.5
9/8/2009	0:00 - 4:00	4.00	DRLPRO	01	E	P		N/D BOPE, CLEAN PITS, RELEASE RIG @ 04:00 9/8/09

# US ROCKIES REGION

## Operation Summary Report

Well: NBU 921-35AT	Spud Conductor: 7/10/2009	Spud Date: 7/11/2009
Project: UTAH-UINTAH	Site: NBU 921-35AT	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 11/1/2009	End Date: 11/11/2009
Active Datum: RKB @5,008.00ft (above Mean Sea Level)	UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/1/2009	13:00 - 16:00	3.00	COMP	30		P		ROAD RIG FROM NBU 922-36G PAD TO LOC, SPOT RIG AND EQUIP ON LOC, SDFN, JSA-SAFETY MEETING #2, DAY 2
11/2/2009	7:00 - 7:15	0.25	COMP	48		P		N/D WH, N/U BOPS, R/U TBG EQUIP, P/U 3 7/8" BIT TIH W/ 2 3/8" L-80 TBG, TALLY TBG IN HOLE, TAG @ 9531', R/U POWER SWIVEL, BROKE CIRC DN CSG OUT TBG, DRILL OUT WIPING RUBBER AND CEMENT FROM 9531' TO 9545', CIRC WELL CLEAN, R/D POWER SWIVEL, POOH W/ LAY DN 73 JTS ON TRAILER, TOOH W/ 2 3/8" TBG, SHUT WELL IN SDFN, JSA-SAFETY MEETING #3, DAY 3
	7:15 - 17:30	10.25	COMP	31	I	P		
11/3/2009	7:00 - 7:15	0.25	COMP	48		P		N/D BOPS, N/U FRAC VALVE, PRESSURE TEST CSG AND FRAC VALVE TO 7000#, OK R/U SCHLUMBERGER WIRELINE, ( PERF STG #1 ) RIH W/ PERF GUNS, PERF THE MESAVERDE @ 9517'- 9520' 4-SPF, 9396'- 9398' 4-SPF, 9344'- 9348' 4-SPF, 9290'- 9292' 2-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE, 120* PHS, 40 HOLES, SWI, SDFN, JSA-SAFETY MEETING #4, DAY 4 W/ FRAC, WIRELINE AND RIG CREW SCHLUMBERGER PRESSURE TESTED SURFACE LINE TO 8000#, OK ( STG #1 ) WHP = 1834#, BRK DN PERF @ 3781# @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5153#, ISIP = 2520#, F.G. = 0.70, PUMP 3 BBLS 15% HCL AHEAD OF INJ, CALC ALL PERF OPEN, PUMP 1580 BBLS SLK WTR & 60017# OF OTTAWA SAND, ISIP = 3179#, F.G. = 0.77, NPI = 659, MP = 6586#, MR = 51.6 B/M, AP = 4993#, AR = 46.5 B/M, 55017# 30/50 OTTAWA SD, 5000# TLC SD, 160 GALS CLAYTREAT, 33 GALS FRW, 194 GALS NALCO SCALE INHIB, 38 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	7:15 - 9:00	1.75	COMP	33	C	P		
	9:00 - 15:00	6.00	COMP	37	B	P		
11/4/2009	6:30 - 6:45	0.25	COMP	48		P		( STG #2 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 9259', PERF THE MESAVERDE @ 9220'- 9222' 4-SPF, 9141'- 9143' 3-SPF, 9098'- 9100' 3-SPF, 9069'- 9071' 3-SPF, 9020'- 9023' 4-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE, 120* PHS, 38 HOLES, WHP = 2357 #, BRK DN PERF @ 3093 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5089 #, ISIP = 2489 #, F.G. = 0.70, CALC ALL PERF OPEN, PUMP 940 BBLS SLK WTR & 36295 # OTTAWA SAND, ISIP = 3203 #, F.G. = 0.78 , NPI = 714 , MP = 6532 #, MR = 51.8 B/M, AP = 4723 #, AR = 46.1 B/M, 31295 # 30/50 OTTAWA SD, 5000 # TLC SD, 95 GALS CLAYTREAT, 22 GALS FRW, 101 GALS NALCO SCALE INHIB, 20 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	6:45 - 7:00	0.25	COMP	36	E	P		
	7:00 - 7:30	0.50	COMP	36	E	P		
	7:30 - 9:00	1.50	COMP	36	E	P		

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009	Spud Date: 7/11/2009
Project: UTAH-UINTAH	Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 11/1/2009	End Date: 11/11/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 11:00	2.00	COMP	36	E	P		( STG #3 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 9002, PERF THE MESAVERDE @ 8969'- 8972' 4-SPF, 8928'- 8930' 3-SPF, 8887'- 8890' 4-SPF, 8855'- 8856' 3-SPF, 8824'- 8826' 3-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE 120* PHS, 39 HOLES, WHP = 2603 #, BRK DN PERF @ 3367 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5889 #, ISIP = 2774 #, F.G.=0.74 , CALC ALL PERF OPEN, PUMP 1558 BBLS SLK WTR & 65231 # OTTAWA SAND, ISIP = 2700 #, F.G.=0.73 , NPI = -74 , MP = 6911#, MR = 51.8 B/M, AP = 4789 #, AR = 48 B/M, 60231 # 30/50 OTTAWA SD, 5000 # TLC SD, 160 GALS CLAYTREAT, 32 GALS FRW, 133 GALS NALCO SCALE INHIB, 38 GALS NALCO BIOCID
	11:00 - 12:15	1.25	COMP	36	E	P		( STG #4 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 8792', PERF THE MESAVERDE @ 8760'- 8762' 4-SPF, 8729'- 8731' 4-SPF, 8700'- 8703' 4-SPF, 8635'- 8637' 3-SPF, 8589'- 8591' 3-SPF, USING 3 3/8" EXP GUNS, 23gm, 120* PHS, 0.36 HOLE, 40 HOLES, WHP = 1795 #, BRK DN PERF @ 3263 # @ 6 B/M, INJ-R = 51.5 B/M, INJ-P = 5607#, ISIP = 2550 #, F.G. = 0.72 , CALC 74% PERF OPEN, PUMP 1015 BBLS SLK WTR & 40039 # OTTAWA SAND, ISIP = 2532 # F.G.=0.72 , NPI = -18 , MP = 6268 #, MR = 51.7 B/M, AP = 4471 #, AR = 48 B/M, 35039 # 30/50 OTTAWA SD, 5000 # TLC SD, 103 GALS CLAYTREAT, 21 GALS FRW, 103 GALS NALCO SCALE INHIB, 26 GALS NALCO BIOCID, COMMENTS = good job
	12:15 - 13:30	1.25	COMP	36	E	P		( STG # 5 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 8533', PERF THE MESAVERDE @ 8500'- 8503', 8407'- 8411', 8360'- 8362', 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 120* PHS, 36 HOLES, WHP = 1130 #, BRK DN PERF @ 3405 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 5560 #, ISIP = 2408 #, F.G.=0.72 , CALC 77% PERF OPEN, PUMP 722 BBLS SLK WTR & 26524 # OTTAWA SAND, ISIP = 2657 #, F.G.=0.75 , NPI = 249 , MP = 6013 #, MR = 51.7 B/M, AP = 4557 #, AR = 48 B/M, 21524 # 30/50 OTTAWA SD, 5000 # TLC SD, 73 GALS CLAYTREAT, 15 GALS FRW, 86 GALS NALCO SCALE INHIB, 18 GALS NALCO BIOCID, COMMENTS = GOOD JOB

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009	Spud Date: 7/11/2009
Project: UTAH-UINTAH	Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 11/1/2009	End Date: 11/11/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:30 - 15:00	1.50	COMP	36	E	P		( STG #6 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 8225', PERF THE MESAVERDE @ 8192' - 8195' 3-SPF, 8091' - 8095' 4-SPF, 7992' - 7996' 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 41 HOLES, WHP = 1410 #, BRK DN PERF @ 3388 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 4909 #, ISIP = 2039 #, F.G. = 0.68 , CALC 74% PERF OPEN, PUMP 732 BBLS SLK WTR & 26826 # OTTAWA SAND, ISIP = 2664 # F.G. = 0.76 , NPI = 625 , MP = 5854 #, MR = 51.7 B/M, AP = 4294 #, AR = 48 #, 21826 # 30/50 OTTAWA SD, 5000 # TLC SD, 75 GALS CLAYTREAT, 15 GALS FRW, 86 GALS NALCO SCALE INHIB, 18 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	15:00 - 16:30	1.50	COMP	36	E	P		( STG #7 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 7956', PERF THE MESAVERDE @ 7923' - 7926' 4-SPF, 7878' - 7880' 4-SPF, 7836' - 7838' 3-SPF, 7814' - 7816' 3-SPF, 7784' - 7786' 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE 120° PHS, 40 HOLES, WHP = 1253 #, BRK DN PERF @ 2669 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 4814 #, ISIP = 1920 #, F.G. = 0.67 , CALC 73% PERF OPEN, PUMP 878 BBLS SLK WTR & 33887 # OTTAWA SAND, ISIP = 2129 #, F.G. = 0.70 , NPI = 209 , MP = 5571# MR = 51.7 B/M, AP = 3839 #, AR = 48 B/M, 28887 # 30/50 OTTAWA SD, 5000 # TLC SD, 89 GALS CLAYTREAT, 18 GALS FRW, 92 GALS NALCO SCALE INHIB, 19 GALS NALCO BIOCID, GALS NALCO BIOCID, COMMENTS, GOOD JOB
	16:30 - 18:00	1.50	COMP	36	E	P		( STG #8 ) RIH W/ HALLIBURTON 8K CBP & PERF GUNS, SET CBP @ 7710', PERF THE MESAVERDE @ 7677' - 7680', 7640' - 7644', 7573' - 7376', 4-SPF, USING 3 3/8" EXP GUNS, 23gm, 0.36 HOLE, 120° PHS, 40 HOLES, WHP = 802 #, BRK DN PERF @ 3813 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 4445 #, ISIP = 1354 #, F.G. = 0.61 , CALC 66% PERF OPEN PUMP 1185 BBLS SLK WTR, & 47726 # OTTAWA SAND, ISIP = 2269#, F.G. = 0.72 , NPI = 915 , MP = 4997 #, MR = 51.8 B/M, AP = 3434 #, AR = 48 B/M, 42726 # 30/50 SAND, 5000 # TLC SAND, 121GALS CLAYTREAT, 24 GALS FRW, 108 GALS NALCO SCALE INHIB, 24 GALS NALCO BIOCID, COMMENTS = GOOD JOB

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 11/1/2009		End Date: 11/11/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 19:30	1.50	COMP	36	E	P		( STG # 9 ) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7470', PERF THE MESAVERDE @ 7435'- 7440' 4-SPF, 7357'- 7360' 3-SPF, 7301'- 7304' 4-SPF, USING 3 3/8" EXP GUNS, 23 gm, O.36 HOLE, 120" PHS, 41 HOLES, WHP = 630 #, BRK DN PERF @ 3054 # @ 6 B/M, INJ-RT = 51.5 B/M, INJ-P = 3944 #, ISIP = 1422 #, F.G. = 0.66 , CALC 81% PERF OPEN, PUMP 1374 BBLS SLK WTR & 59967 # OTTAWA SAND, ISIP = 2351#, F.G. = 0.75 , NPI = 929 , MP = 4639 #, MR = 51.7 B/M, AP = 3249 #, AR = 48 B/M, 54967 # 30/50 OTTAWA SAND, 5000 # TLC SD, 128 GALS CLAYTREAT, 30 GALS FRW, 66 GALS NALCO SCALE INHIB, 34 GALS NALCO BIOCID, COMMENTS = GOOD JOB
	19:30 - 20:30	1.00	COMP	36	E	P		( KILL PLUG ) RIH W/ HALLIBURTON 8K CBP, SER CBP @ 7251', POOH R/D WIRELINE AND FRAC CREW. SHUT WELL IN SDFN,  TOTAL FLUID = 10385 BBLS SLK WTR, TOTAL SAND = 396512 #, TOTAL CLAYTREAT = 1004 GALS, TOTAL FRW = 179 GALS TOTAL NALCO SCALE INHIB = 969 GALS, TOTAL NALCO BIOCID = 235 GALS JSA-SAFETY MEETING #5, DAY 5
11/5/2009	7:00 - 7:15	0.25	COMP	48		P		N/D FRAC VALVE, N/U BOPS, P/U 3 7/8" MILL AND POBS, TIH W/ 2 3/8" TBG, TAG CBP @ 7251', R/U POWER SWIVEL, BROKE CIRC DN TBG OUT CSG.
	7:15 - 10:00	2.75	COMP	31	I	P		

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009	Spud Date: 7/11/2009
Project: UTAH-UINTAH	Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 11/1/2009	End Date: 11/11/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 10:00	0.00	COMP	44	C	P		<p>( DRLG CBP #1 ) 7251', DRILL OUT HALLIBURTON 8K CBP IN 5 MIN, 75 # DIFF, RIH TAG @ 7440', C/O 30' SAND, FCP = 75#,</p> <p>( DRLG CBP #2 ) 7470', DRILL OUT HALLIBURTON 8K CBP IN 5 MIN, 25# DIFF, RIH TAG @ 7680', C/O 30' SAND, FCP = 100#,</p> <p>( DRLG CBP #3 ) 7710', DRILL OUT HALLIBURTON 8K CBP IN 5 MIN, 100# DIFF, RIH TAG @ 7926', C/O 30' SAND, FCP = 200#,</p> <p>( DRLG CBP #4 ) 7956', DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 50# DIFF, RIH TAG @ 8195', C/O 30' SAND, FCP = 250#,</p> <p>( DRLG CBP # 5 ) 8225', DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 25# DIFF, RIH TAG @ 8500', C/O 30' SAND, FCP = 275#,</p> <p>( DRLG CBP #6 ) 8530', DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 25# DIFF, RIH TAG @ 8767', C/O 30' SAND, FCP = 300#,</p> <p>( DRLG CBP #7 ) 8797', DRILL OUT HALLIBURTON 8K CBP IN 15 MIN, 100# DIFF, RIH TAG @ 8972', C/O 30' SAND, FCP = 400#,</p> <p>( DRLG CBP #8 ) 9002', DRILL OUT HALLIBURTON 8K CBP IN 20 MIN, 0 # DIFF, RIH TAG @ 9229', C/O 30' SAND, FCP = 400#,</p> <p>( DRLG CBP #9) 9259', DRILL OUT HALLIBURTON 8K CBP IN 30 MIN, 25# DIFF, RIH TAG @ 9500', C/O 45' SAND TO PBD 9545', FCP = 400#,</p> <p>CIRC WELL CLEAN, R/D POWER SWIVEL, POOH LAY DN 18 JTS ON TRAILER, LAND TBG ON HANGER W 282 JTS 2 3/8" J-55 TBG, EOT @ 8982.50', R/D FLOOR &amp; TBG EQUIP, N/D BOPS, DROP BALL DN TBG, N/U WH, PUMP OFF BIT SUB @ 2400 #, WAIT 30 MIN FOR BIT TO FALL TO BTM, OPEN WELL UP TO FBT ON 20/64 CHOKE, FTP = 750 #, SICP = 1475 #, TURN WELL OVER TO FBC @ 6:30 PM, W/ 7509 BBLS WTR LTR, AVG 15MIN / PLUG W/ 30' SAND,</p> <p>313 JTS OF 2 3/8" L-80 TBG DELV, 282 JTS OF 2 3/8" L-80 TBG LANDED 29 JTS OF 2 3/8" L-80 TBG RETURNED 2 JTS OF 2 3/8" L-80 TBG BAD</p> <p>KB = 13.00' HANGER = .83' 282 JTS 2 3/8" L-80 TBG = 8966.47' XN-NIPPLE, POBS = 2.20'</p> <p>EOT = 8982.50'</p> <p>7 AM FLBK REPORT: CP 2400#, TP 2175#, 20/64" CK, 55 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 6081 BBLS LEFT TO RECOVER: 5904</p>
11/6/2009	7:00 -			33	A			

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 11/1/2009		End Date: 11/11/2009	
Active Datum: RKB @5,008.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/7/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 2275#, 20/64" CK, 35 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 7281 BBLS LEFT TO RECOVER: 4704
11/8/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 2175#, 20/64" CK, 25 BWPH, MEDIUM SAND, 2.8 GAS TTL BBLS RECOVERED: 8078 BBLS LEFT TO RECOVER: 3907
	10:00 -		PROD	50				WELL TURNED TO SALE @ 1000 HR ON 11/8/09 - FTP 2850#, CP 2300#, 2300 MCFD, 35 BWPD, 20/64 CK
11/9/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 2050#, 20/64" CK, 25 BWPH, MEDIUM SAND, 2.7 GAS TTL BBLS RECOVERED: 8678 BBLS LEFT TO RECOVER: 3307
11/10/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 1925#, 20/64" CK, 20 BWPH, LIGHT SAND, 2.7 GAS TTL BBLS RECOVERED: 9223 BBLS LEFT TO RECOVER: 2762
	7:30 -		PROD	50				WELL IP'D 11/10/09 - 2766 MCFD, 448, CP 2623#, FTP 1907#, CK 20/64", LP 102#, 24 HRS
11/11/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 1975#, 20/64" CK, 18 BWPH, CLEAN SAND, 2.4 GAS TTL BBLS RECOVERED: 9671 BBLS LEFT TO RECOVER: 2314
	7:00 -			33	A			7 AM FLBK REPORT: CP 2350#, TP 1750#, 20/64" CK, 18 BWPH, CLEAN SAND, 1.6 GAS TTL BBLS RECOVERED: 9761 BBLS LEFT TO RECOVER: 2224



## **END OF WELL REPORT**

**Prepared For:**

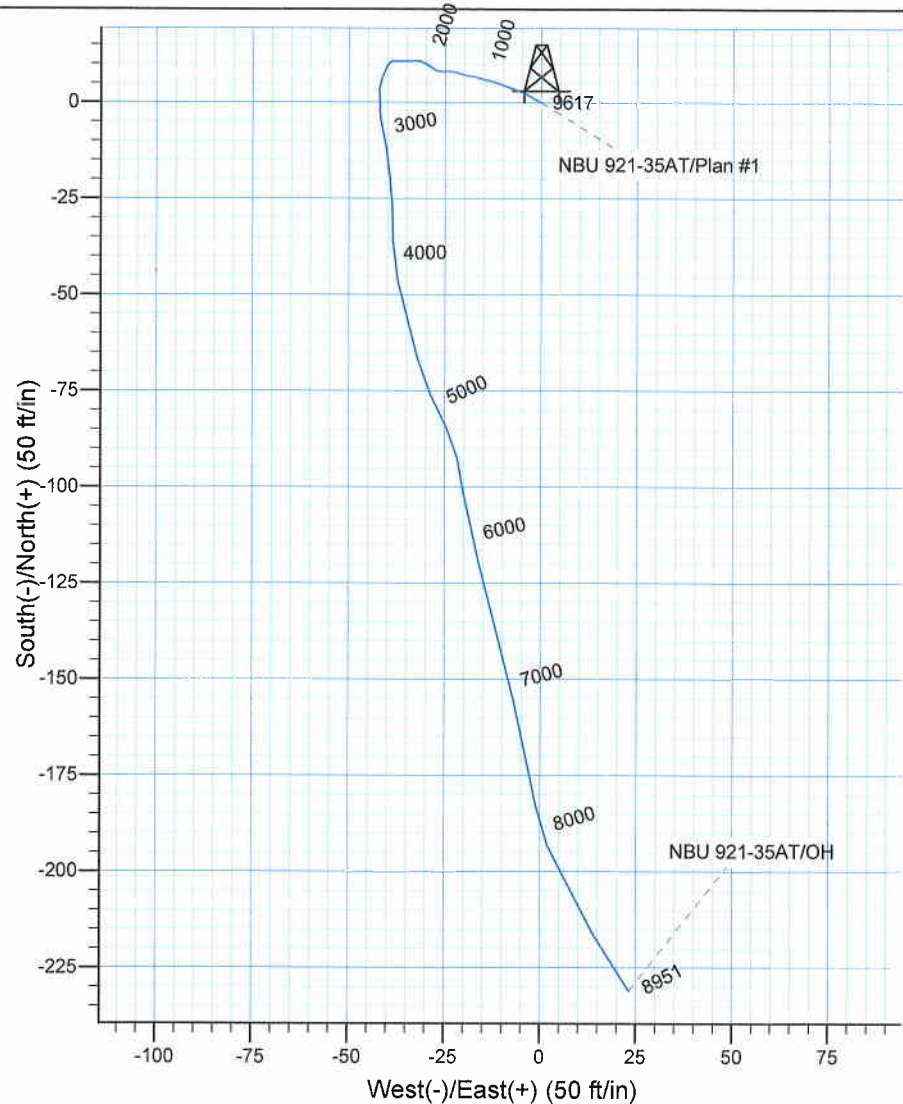
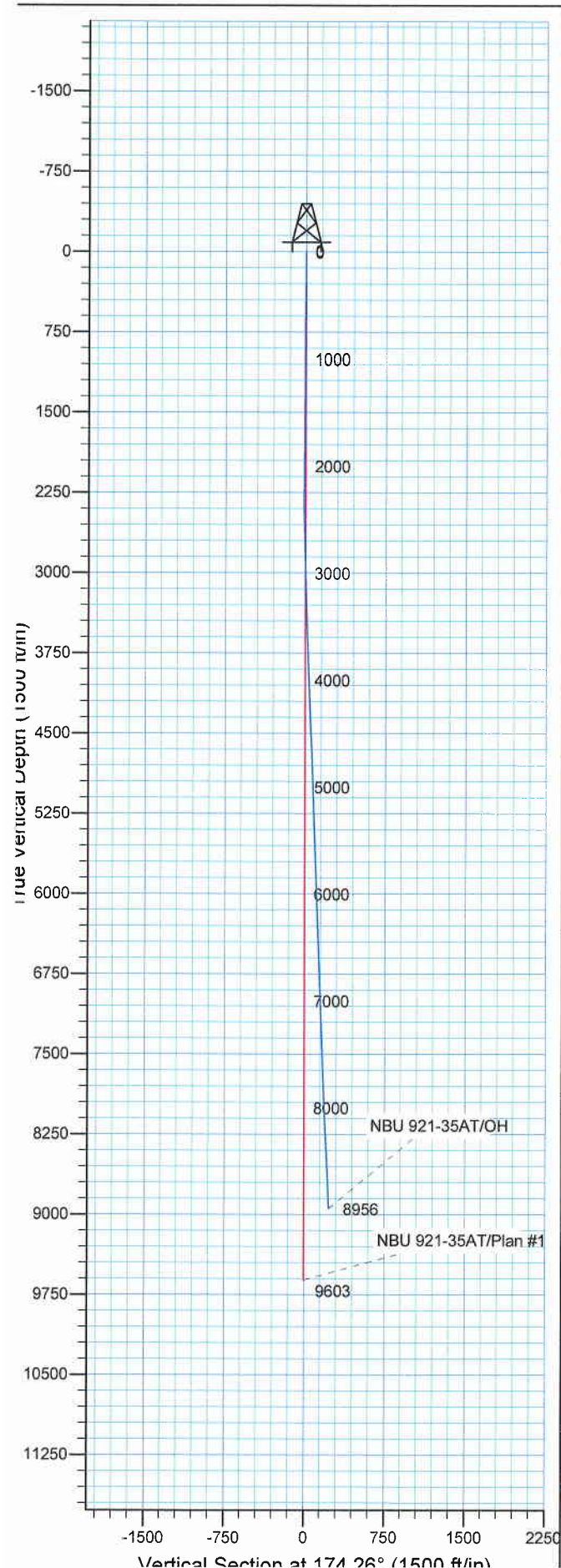
**Kerr McGee Oil & Gas Onshore LP  
NBU 921-35AT  
NBU 921-35AT Pad  
Pioneer 69  
Uintah County, UT**

***Prepared By:***

***Rex Hall, Grand Junction D.E.  
Scientific Drilling  
Rocky Mountain Region***

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WELL DETAILS: NBU 921-35AT

Ground Level: GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	612659.80	2557264.41	39° 59' 54.240 N	109° 30' 38.410 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well NBU 921-35AT, True North  
 Vertical (TVD) Reference: GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
 Calculation Method: Minimum Curvature  
 Local North: True  
 Location: Sec 35 T9S R21E

PROJECT DETAILS: Uintah County, UT NAD27

Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: Utah Central 4302

Design: OH (NBU 921-35AT/OH)

Created By: Rex Hall Date: 2009-09-09

# **Kerr McGee Oil and Gas Onshore LP**

**Uintah County, UT NAD27**

**NBU 921-35AT Pad**

**NBU 921-35AT**

**OH**

**Design: OH**

## **Standard Survey Report**

**09 September, 2009**

# Scientific Drilling International

## Survey Report

**Company:** Kerr McGee Oil and Gas Onshore LP  
**Project:** Uintah County, UT NAD27  
**Site:** NBU 921-35AT Pad  
**Well:** NBU 921-35AT  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well NBU 921-35AT  
**TVD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**MD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi-User Db

<b>Project</b>	Uintah County, UT NAD27		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

<b>Site</b>	NBU 921-35AT Pad, Sec 35 T9S R21E			
<b>Site Position:</b>		<b>Northing:</b>	612,659.82 ft	<b>Latitude:</b> 39° 59' 54.240 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,557,264.41 ft	<b>Longitude:</b> 109° 30' 38.410 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b> 1.27 °

<b>Well</b>	NBU 921-35AT, 504' FNL & 524' FEL			
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	612,659.80 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,557,264.41 ft
<b>Position Uncertainty</b>	0.00 ft		<b>Wellhead Elevation:</b>	ft
			<b>Ground Level:</b>	4,990.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	7/2/2009	11.31	65.92	52,548

<b>Design</b>	OH			
<b>Audit Notes:</b>				
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b> 0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	14.00	0.00	0.00	285.36

<b>Survey Program</b>	<b>Date</b> 9/9/2009			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
134.00	2,404.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1
2,499.00	8,956.00	Survey #2 (OH)	MWD SDI	MWD - Standard ver 1.0.1

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
134.00	0.11	211.53	134.00	-0.11	-0.07	0.04	0.08	0.08	0.00	
224.00	1.08	302.64	223.99	0.27	-0.83	0.87	1.21	1.08	101.23	
314.00	1.33	301.19	313.97	1.27	-2.43	2.68	0.28	0.28	-1.61	
404.00	1.34	296.02	403.95	2.28	-4.27	4.72	0.13	0.01	-5.74	
494.00	1.25	288.81	493.93	3.05	-6.15	6.74	0.21	-0.10	-8.01	
584.00	1.16	285.21	583.91	3.61	-7.96	8.63	0.13	-0.10	-4.00	
674.00	1.19	293.88	673.89	4.23	-9.69	10.46	0.20	0.03	9.63	
764.00	1.01	290.16	763.87	4.88	-11.29	12.18	0.22	-0.20	-4.13	
854.00	1.16	286.43	853.86	5.41	-12.91	13.88	0.18	0.17	-4.14	
944.00	1.08	281.79	943.84	5.84	-14.61	15.64	0.13	-0.09	-5.16	
1,034.00	1.01	287.20	1,033.82	6.25	-16.20	17.28	0.13	-0.08	6.01	

# Scientific Drilling International

## Survey Report

**Company:** Kerr McGee Oil and Gas Onshore LP  
**Project:** Uintah County, UT NAD27  
**Site:** NBU 921-35AT Pad  
**Well:** NBU 921-35AT  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well NBU 921-35AT  
**TVD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**MD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi-User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,124.00	0.75	288.06	1,123.81	6.66	-17.52	18.66	0.29	-0.29	0.96
1,214.00	0.56	268.47	1,213.81	6.84	-18.52	19.67	0.32	-0.21	-21.77
1,304.00	0.54	272.66	1,303.80	6.84	-19.38	20.50	0.05	-0.02	4.66
1,394.00	0.98	291.44	1,393.79	7.14	-20.52	21.68	0.56	0.49	20.87
1,484.00	1.11	288.03	1,483.78	7.70	-22.07	23.32	0.16	0.14	-3.79
1,574.00	1.08	273.01	1,573.76	8.01	-23.74	25.02	0.32	-0.03	-16.69
1,664.00	1.25	262.10	1,663.75	7.92	-25.56	26.75	0.31	0.19	-12.12
1,754.00	1.03	297.74	1,753.73	8.16	-27.25	28.44	0.81	-0.24	39.60
1,844.00	1.09	305.56	1,843.71	9.04	-28.66	30.03	0.17	0.07	8.69
1,934.00	1.10	304.15	1,933.70	10.02	-30.07	31.65	0.03	0.01	-1.57
2,024.00	1.01	282.30	2,023.68	10.67	-31.56	33.26	0.46	-0.10	-24.28
2,114.00	0.99	265.29	2,113.67	10.78	-33.11	34.79	0.33	-0.02	-18.90
2,154.00	1.08	259.16	2,153.66	10.68	-33.83	35.45	0.36	0.22	-15.32
2,294.00	1.16	280.82	2,293.64	10.70	-36.52	38.04	0.31	0.06	15.47
2,404.00	1.19	255.63	2,403.61	10.62	-38.72	40.15	0.47	0.03	-22.90
2,499.00	1.67	201.75	2,498.59	9.09	-40.18	41.16	1.44	0.51	-56.72
First SDI Production MWD Survey									
2,594.00	1.85	205.27	2,593.54	6.42	-41.35	41.58	0.22	0.19	3.71
2,688.00	1.76	184.70	2,687.50	3.61	-42.12	41.57	0.69	-0.10	-21.88
2,942.00	1.67	170.55	2,941.38	-3.93	-41.83	39.29	0.17	-0.04	-5.57
3,195.00	1.85	168.44	3,194.26	-11.57	-40.41	35.90	0.08	0.07	-0.83
3,448.00	1.76	176.53	3,447.14	-19.45	-39.35	32.80	0.11	-0.04	3.20
3,701.00	1.85	174.33	3,700.01	-27.39	-38.71	30.08	0.04	0.04	-0.87
3,954.00	2.20	182.41	3,952.86	-36.30	-38.52	27.52	0.18	0.14	3.19
4,207.00	2.46	164.84	4,205.65	-46.40	-37.30	23.68	0.30	0.10	-6.94
4,460.00	2.29	166.59	4,458.43	-56.55	-34.71	18.49	0.07	-0.07	0.69
4,713.00	2.46	164.40	4,711.22	-66.70	-32.07	13.26	0.08	0.07	-0.87
4,966.00	2.11	155.78	4,964.01	-76.18	-28.70	7.50	0.19	-0.14	-3.41
5,219.00	2.11	152.62	5,216.84	-84.56	-24.65	1.37	0.05	0.00	-1.25
5,472.00	1.93	168.88	5,469.69	-92.88	-21.69	-3.69	0.24	-0.07	6.43
5,725.00	2.02	171.08	5,722.54	-101.46	-20.17	-7.42	0.05	0.04	0.87
6,199.00	2.37	164.57	6,196.19	-119.16	-16.27	-15.87	0.09	0.07	-1.37
6,673.00	2.20	166.95	6,669.81	-137.47	-11.61	-25.22	0.04	-0.04	0.50
7,146.00	2.29	164.57	7,142.45	-155.43	-7.05	-34.38	0.03	0.02	-0.50
7,652.00	1.93	171.87	7,648.11	-173.61	-3.15	-42.95	0.09	-0.07	1.44
8,126.00	2.99	161.41	8,121.67	-193.23	1.92	-53.03	0.24	0.22	-2.21
8,600.00	3.25	144.53	8,594.97	-215.89	13.66	-70.35	0.20	0.05	-3.56
8,956.00	2.55	152.09	8,950.52	-231.10	23.22	-83.61	0.22	-0.20	2.12
Last SDI Production MWD Survey									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
NBU 921-35AT PBHL	0.00	0.00	9,617.00	0.01	0.00	612,659.82	2,557,264.41	39° 59' 54.240 N	109° 30' 38.410 W
- actual wellpath misses target center by 705.80ft at 8956.00ft MD (8950.52 TVD, -231.10 N, 23.22 E)									
- Circle (radius 25.00)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# **Kerr McGee Oil and Gas Onshore LP**

Uintah County, UT NAD27

NBU 921-35AT Pad

NBU 921-35AT

OH

Design: OH

## **Survey Report - Geographic**

09 September, 2009

# Scientific Drilling International

## Survey Report - Geographic

**Company:** Kerr McGee Oil and Gas Onshore LP  
**Project:** Uintah County, UT NAD27  
**Site:** NBU 921-35AT Pad  
**Well:** NBU 921-35AT  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well NBU 921-35AT  
**TVD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**MD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi-User Db

<b>Project</b>	Uintah County, UT NAD27		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

Site	NBU 921-35AT Pad, Sec 35 T9S R21E				
Site Position:		Northing:	612,659.82 ft	Latitude:	39° 59' 54.240 N
From:	Lat/Long	Easting:	2,557,264.41 ft	Longitude:	109° 30' 38.410 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.27 °

Well	NBU 921-35AT, 504' FNL & 524' FEL					
Well Position	+N/-S	0.00 ft	Northing:	612,659.80 ft	Latitude:	39° 59' 54.240 N
	+E/-W	0.00 ft	Easting:	2,557,264.41 ft	Longitude:	109° 30' 38.410 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,990.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	7/2/2009	11.31	65.92	52,548

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	14.00	0.00	0.00	285.36	

<b>Survey Program</b>	<b>Date</b>	9/9/2009			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
134.00	2,404.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,499.00	8,956.00	Survey #2 (OH)	MWD SDI	MWD - Standard ver 1.0.1	



# Scientific Drilling International

## Survey Report - Geographic

**Company:** Kerr McGee Oil and Gas Onshore LP  
**Project:** Uintah County, UT NAD27  
**Site:** NBU 921-35AT Pad  
**Well:** NBU 921-35AT  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well NBU 921-35AT  
**TVD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**MD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi-User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	612,659.80	2,557,264.41	39° 59' 54.240 N	109° 30' 38.410 W
134.00	0.11	211.53	134.00	-0.11	-0.07	612,659.69	2,557,264.35	39° 59' 54.239 N	109° 30' 38.411 W
224.00	1.08	302.64	223.99	0.27	-0.83	612,660.06	2,557,263.58	39° 59' 54.243 N	109° 30' 38.421 W
314.00	1.33	301.19	313.97	1.27	-2.43	612,661.02	2,557,261.95	39° 59' 54.252 N	109° 30' 38.441 W
404.00	1.34	296.02	403.95	2.28	-4.27	612,661.98	2,557,260.09	39° 59' 54.262 N	109° 30' 38.465 W
494.00	1.25	288.81	493.93	3.05	-6.15	612,662.72	2,557,258.20	39° 59' 54.270 N	109° 30' 38.489 W
584.00	1.16	285.21	583.91	3.61	-7.96	612,663.23	2,557,256.38	39° 59' 54.275 N	109° 30' 38.512 W
674.00	1.19	293.88	673.89	4.23	-9.69	612,663.81	2,557,254.63	39° 59' 54.282 N	109° 30' 38.535 W
764.00	1.01	290.16	763.87	4.88	-11.29	612,664.43	2,557,253.02	39° 59' 54.288 N	109° 30' 38.555 W
854.00	1.16	286.43	853.86	5.41	-12.91	612,664.92	2,557,251.39	39° 59' 54.293 N	109° 30' 38.576 W
944.00	1.08	281.79	943.84	5.84	-14.61	612,665.32	2,557,249.67	39° 59' 54.298 N	109° 30' 38.598 W
1,034.00	1.01	287.20	1,033.82	6.25	-16.20	612,665.69	2,557,248.08	39° 59' 54.302 N	109° 30' 38.618 W
1,124.00	0.75	288.06	1,123.81	6.66	-17.52	612,666.08	2,557,246.75	39° 59' 54.306 N	109° 30' 38.635 W
1,214.00	0.56	268.47	1,213.81	6.84	-18.52	612,666.23	2,557,245.75	39° 59' 54.307 N	109° 30' 38.648 W
1,304.00	0.54	272.66	1,303.80	6.84	-19.38	612,666.21	2,557,244.88	39° 59' 54.307 N	109° 30' 38.659 W
1,394.00	0.98	291.44	1,393.79	7.14	-20.52	612,666.49	2,557,243.74	39° 59' 54.310 N	109° 30' 38.674 W
1,484.00	1.11	288.03	1,483.78	7.70	-22.07	612,667.01	2,557,242.18	39° 59' 54.316 N	109° 30' 38.694 W
1,574.00	1.08	273.01	1,573.76	8.01	-23.74	612,667.28	2,557,240.50	39° 59' 54.319 N	109° 30' 38.715 W
1,664.00	1.25	262.10	1,663.75	7.92	-25.56	612,667.15	2,557,238.68	39° 59' 54.318 N	109° 30' 38.738 W
1,754.00	1.03	297.74	1,753.73	8.16	-27.25	612,667.36	2,557,236.99	39° 59' 54.320 N	109° 30' 38.760 W
1,844.00	1.09	305.56	1,843.71	9.04	-28.66	612,668.20	2,557,235.56	39° 59' 54.329 N	109° 30' 38.778 W
1,934.00	1.10	304.15	1,933.70	10.02	-30.07	612,669.15	2,557,234.12	39° 59' 54.339 N	109° 30' 38.796 W
2,024.00	1.01	282.30	2,023.68	10.67	-31.56	612,669.77	2,557,232.62	39° 59' 54.345 N	109° 30' 38.816 W
2,114.00	0.99	265.29	2,113.67	10.78	-33.11	612,669.84	2,557,231.07	39° 59' 54.346 N	109° 30' 38.836 W
2,154.00	1.08	259.16	2,153.66	10.68	-33.83	612,669.73	2,557,230.35	39° 59' 54.345 N	109° 30' 38.845 W
2,294.00	1.16	280.82	2,293.64	10.70	-36.52	612,669.69	2,557,227.67	39° 59' 54.346 N	109° 30' 38.879 W
2,404.00	1.19	255.63	2,403.61	10.62	-38.72	612,669.56	2,557,225.47	39° 59' 54.345 N	109° 30' 38.908 W
2,499.00	1.67	201.75	2,498.59	9.09	-40.18	612,668.00	2,557,224.04	39° 59' 54.330 N	109° 30' 38.926 W
<b>First SDI Production MWD Survey</b>									
2,594.00	1.85	205.27	2,593.54	6.42	-41.35	612,665.30	2,557,222.93	39° 59' 54.303 N	109° 30' 38.941 W
2,688.00	1.76	184.70	2,687.50	3.61	-42.12	612,662.47	2,557,222.22	39° 59' 54.275 N	109° 30' 38.951 W
2,942.00	1.67	170.55	2,941.38	-3.93	-41.83	612,654.94	2,557,222.68	39° 59' 54.201 N	109° 30' 38.948 W
3,195.00	1.85	168.44	3,194.26	-11.57	-40.41	612,647.34	2,557,224.27	39° 59' 54.125 N	109° 30' 38.929 W
3,448.00	1.76	176.53	3,447.14	-19.45	-39.35	612,639.49	2,557,225.50	39° 59' 54.048 N	109° 30' 38.916 W
3,701.00	1.85	174.33	3,700.01	-27.39	-38.71	612,631.56	2,557,226.32	39° 59' 53.969 N	109° 30' 38.907 W
3,954.00	2.20	182.41	3,952.86	-36.30	-38.52	612,622.65	2,557,226.71	39° 59' 53.881 N	109° 30' 38.905 W
4,207.00	2.46	164.84	4,205.65	-46.40	-37.30	612,612.59	2,557,228.15	39° 59' 53.781 N	109° 30' 38.889 W
4,460.00	2.29	166.59	4,458.43	-56.55	-34.71	612,602.49	2,557,230.97	39° 59' 53.681 N	109° 30' 38.856 W
4,713.00	2.46	164.40	4,711.22	-66.70	-32.07	612,592.41	2,557,233.83	39° 59' 53.581 N	109° 30' 38.822 W
4,966.00	2.11	155.78	4,964.01	-76.18	-28.70	612,583.01	2,557,237.41	39° 59' 53.487 N	109° 30' 38.779 W
5,219.00	2.11	152.62	5,216.84	-84.56	-24.65	612,574.72	2,557,241.65	39° 59' 53.404 N	109° 30' 38.727 W
5,472.00	1.93	168.88	5,469.69	-92.88	-21.69	612,566.47	2,557,244.80	39° 59' 53.322 N	109° 30' 38.689 W
5,725.00	2.02	171.08	5,722.54	-101.46	-20.17	612,557.92	2,557,246.50	39° 59' 53.237 N	109° 30' 38.669 W
6,199.00	2.37	164.57	6,196.19	-119.16	-16.27	612,540.31	2,557,250.79	39° 59' 53.062 N	109° 30' 38.619 W
6,673.00	2.20	166.95	6,669.81	-137.47	-11.61	612,522.11	2,557,255.86	39° 59' 52.881 N	109° 30' 38.559 W
7,146.00	2.29	164.57	7,142.45	-155.43	-7.05	612,504.26	2,557,260.82	39° 59' 52.704 N	109° 30' 38.501 W
7,652.00	1.93	171.87	7,648.11	-173.61	-3.15	612,486.17	2,557,265.12	39° 59' 52.524 N	109° 30' 38.450 W
8,126.00	2.99	161.41	8,121.67	-193.23	1.92	612,466.67	2,557,270.63	39° 59' 52.330 N	109° 30' 38.385 W
8,600.00	3.25	144.53	8,594.97	-215.89	13.66	612,444.27	2,557,282.87	39° 59' 52.106 N	109° 30' 38.235 W
8,956.00	2.55	152.09	8,950.52	-231.10	23.22	612,429.27	2,557,292.77	39° 59' 51.956 N	109° 30' 38.112 W
<b>Last SDI Production MWD Survey</b>									

28 17  
259 40

# Scientific Drilling International

## Survey Report - Geographic

**Company:** Kerr McGee Oil and Gas Onshore LP  
**Project:** Uintah County, UT NAD27  
**Site:** NBU 921-35AT Pad  
**Well:** NBU 921-35AT  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well NBU 921-35AT  
**TVD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**MD Reference:** GL 4990' & RKB 18' @ 5008.00ft (Pioneer 69)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi-User Db

### Targets

#### Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
NBU 921-35AT PBHL	0.00	0.00	9,617.00	0.01	0.00	612,659.82	2,557,264.41	39° 59' 54.240 N	109° 30' 38.410 W
- actual wellpath misses target center by 705.80ft at 8956.00ft MD (8950.52 TVD, -231.10 N, 23.22 E)									
- Circle (radius 25.00)									

### Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,499.00	2,498.59	9.09	-40.18	First SDI Production MWD Survey
8,956.00	8,950.52	-231.10	23.22	Last SDI Production MWD Survey

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**Scientific Drilling**  
Rocky Mountain Operations

## **SUPPORT STAFF**

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**Directional Drillers:**

**MWD Operator:**  
**A. Merha**

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(307) 472-6621

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22582
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-35AT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0504 FNL 0524 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047401140000
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

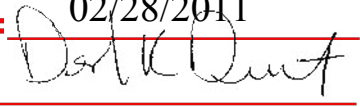
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/2/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

THE OPERATOR REQUESTS AUTHORIZATION TO TEMPORARILY ABANDON THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO TEMPORARILY ABANDON THE WELL TO DRILL THE WELLS ON THE NBU 921-35A PAD, THE NBU 921-35A1BS, NBU 921-35A4CS, NBU 921-35B1BS AND THE NBU 921-35B4BS. PLEASE REFER TO THE ATTACHED TEMPORARILY ABANDON PROCEDURE.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 02/28/2011

By: 

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/28/2011

NBU 921-35AT  
 504 FNL & 524 FEL  
 NENE SEC.35, T9S, R21E  
 Uintah County, UT

KBE: 4994'  
 GLE: 4990'  
 TD: 9594'  
 PBTD: 9545'

API NUMBER: 4304740114  
 LEASE NUMBER: ML-22582  
 WINS#: 15598  
 WI: 100.0000%  
 NRI: 83.494445%

CASING: 12 1/4" hole  
 9 5/8" 36# J-55 @ 2440'  
 Cemented with 670 sx  
  
 7.875" hole  
 4 1/2" 11.6# I-80 @ 9594' (KB)  
 Short Joint @ 4693'-4707'  
 Cemented w/ 1860 sx, TOC @ 5700' per CBL

TUBING: 2 3/8" 4.7# J-55 tubing landed at 8983'

PERFORATIONS: Mesaverde 7301' – 9520'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.0217	0.0039
4.5" 11.6# N-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# K-55	8.921	2020	3520	3.247	0.434	0.0773
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.0101
4.5" csg X 9 5/8" 36# csg				2.4192	0.3231	0.0576
4.5" csg X 7.875 borehole				1.704	0.2276	0.0406
9 5/8" csg X 12 1/4" borehole				2.3436	0.3132	0.0558

#### GEOLOGIC INFORMATION:

<b>Formation</b>	<b>Depth to top, ft.</b>	<b>Tech. Pub. #92 Base of USDW's</b>
Uinta	Surface	USDW Elevation ~3000' MSL
Wasatch	4685'	USDW Depth ~1994' KBE
Mesaverde	7387'	

#### Recommended future action for disposition of well bore:

Temporarily abandon the wellbore during the drilling and completion operations of the NBU 921-35A pad wells. Return to production as soon as possible once completions are done.

**NBU 921-35AT TEMPORARY ABANDONMENT PROCEDURE - Workorder# 88120901**

**GENERAL**

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID.
- NOTIFY UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

**PROCEDURE**

**Note:** An estimated 20 sx Class "G" cement needed for procedure

**Note:** Gyro survey has not been run on this well

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. PULL TBG & LD SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.
3. **PLUG #1, ISOLATE MESAVERDE PERFORATIONS (7301'-9520'):** RIH W/ 4 ½" CBP. SET @ ~7250'. RELEASE CBP, PUH 10', BRK CIRC W/ FRESH WATER. PRESSURE TEST CASING TO 500 PSI. INFORM ENGINEERING IF IT DOESN'T TEST. DISPLACE A MINIMUM OF **8 SX/ 1.6 BBL/ 8.72 CUFT**. ON TOP OF PLUG. PUH ABOVE TOC (~7150'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
4. **PLUG #2, PROTECT WASATCH TOP (4685'):** PUH TO ~4785'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **16 SX/ 3.2 BBL/ 17.44 CUFT** AND BALANCE PLUG W/ TOC @ ~4585' (200' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. LOWER WELLHEAD TO GROUND LEVEL TO ACCOMMODATE DRILLING OPS AND INSTALL MARKER PER BLM GUIDELINES.
6. RDMO. TURN OVER TO DRILLING OPERATIONS.

ALM 2/24/11



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22582
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-35AT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0504 FNL 0524 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047401140000
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 3/4/2011			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 The operator has concluded the temporarily abandonment operations on the subject well location on 03/04/2011. This well was temporarily abandoned in order to drill the NBU 921-35A pad. Please see attached chronological well history.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/14/2011	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 921-35AT		Spud Conductor: 7/10/2009		Spud Date: 7/11/2009	
Project: UTAH-UINTAH		Site: NBU 921-35AT			Rig Name No: WESTERN WELLSITE/UNK
Event: ABANDONMENT		Start Date: 3/3/2011		End Date:	
Active Datum: RKB @5,008.00ft (above Mean Sea Leve		UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/3/2011	7:00 - 7:15	0.25		48				HSM JSA
	7:15 - 17:00	9.75		30				ROAD TO NBU 310 LOCATION MOVE EQUIPMENT TO NBU 921-35 AT RIG UP PUMP 100 BLS TIMAC WATER TO KILL WELL ND WH NU BOPE RIG UP TUBING INSPECTION TOOLS TOH / INSPEC 281 JOINTS KEEP PUNPING WATER WEND TOH / TUBING RIG DOWN PIPE INPECTION TOOL PU 3.3/4 BIT TIH / TUBING TO 7260' SWI SDFN 260 GOOD JOINTS 21 BAD JOINTS
3/4/2011	7:00 - 7:15	0.25		48				HSM JSA.
	7:15 - 17:00	9.75		30				ROAD TO LOCATION PUMP 80 BLS TIMAC WATER TO KILL WELL TOH / TUBING KEEP PUMPING WATER WEND TRIPIN PIPE LAID DOWN BIT PU 4.1/2 CIBP TIH / TUBING SET PLUG AT 7254' POH / 10' FILL WELL W FRESH WATER PRESURE TEST CASING AT 500 PSI TEST GOOD PUMP 8 SXS CEMENT TOH / TUBING TO 7100' REVERSE CIRCULATE TOH / TUBING TO 4780' CIRCULATE WELL W FRESH PUMP 16 SXS TOH / LAID DOWN TUBING ND BOPE RIG DOWN SDFN

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22582
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-35AT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0504 FNL 0524 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047401140000
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/19/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> This previously temporarily abandoned well has returned to production. This well returned to production on 8/19/2011.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Andy Lytle		<b>PHONE NUMBER</b> 720 929-6100
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst
<b>DATE</b> 8/26/2011		

## US ROCKIES REGION

### Operation Summary Report

Well: NBU 921-35AT			Spud Conductor: 7/10/2009			Spud Date: 7/11/2009			
Project: UTAH-UINTAH			Site: NBU 921-35AT				Rig Name No:		
Event: WELL WORK EXPENSE			Start Date: 8/11/2011				End Date: 8/17/2011		
Active Datum: RKB @5,008.00ft (above Mean Sea Leve			UWI: 0/9/S/21/E/35/0/NENE/6/PM/N/504.00/E/0/524.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
8/16/2011	6:45 - 7:00	0.25	WO/REP	48		P		HSM & JSA W/ROYAL WELL SERVICE.	
	7:00 - 16:30	9.50	WO/REP	31	I	P		MIRU - SPOT EQUIP. WHP = 0 PSI. NDWH, NU BOPs. R/U FLOOR & TBG EQUIP. PREP & TALLY TBG. PU 3 7/8" MILL & BIT SUB. RIH ON USED 2 3/8 TUBING. TAG CMT PLG @ 4662'. R/D TBG EQUIP. R/U PWR SWVL & PMP. EST CIRC W/TMAC. D/O CMT PLG FROM 4662' TO 4830'. (168') CIRC CLEAN. HANG BACK PWR SWVL, R/U TBG EQUIP. RIH & TAG 2nd CMT PLUG @ 7129'. R/U PWR SWVL & PMP. EST CIRC. D/O CMT PLG FROM 7129' TO 7264'. (135' OF CMT). EOT ON CIBP @ 7264'. CIRC WELL CLEAN W/TMAC. MIRU WEATHERFORD FOAM UNIT. CIRC WELL W/FOAM. PU 20'. SWI - SDFN. PREP TO D/O CIBP IN AM.	
8/17/2011	6:45 - 7:00	0.25	WO/REP	48		P		HSM & JSA W/ROYAL WELL SERVICE	
	7:00 - 17:30	10.50	WO/REP	44	C	P		WHP = 800 PSI. BLOW WELL DWN TO PIT. EST CIRC W/FOAM. MILL UP CIBP IN 23 MIN. PMP 12 BBLS TMAC TO KILL TBG. HANGE BACK PWR SWVL, R/U TBG EQUIP. RIH TAG FILL @ 9477'. R/D TBG EQUIP, R/U PWR SWVL. C/O TO 9546'. (69' OF FILL) (BTM PERF @ 9520' & PBTD @ 9545'). CIRC WELL CLEAN. PMP 12 BBLS DWN TBG TO CONTROL WELL. R/D PWR SWVL, R/U TBG EQUIP. POOH & LD 20 JTS ON FLOAT. CONT. TO POOH & STD BK 142 STDS IN DRK. L/D 1 JT, MILL & BIT SUB. P/U N/C XN NIPPLE & RIH ON 285 JTS USED 2 3/8 4.7# J55 TBG & LND ON HNGR @ 8938.55'. ND BOPs, NUWH. SWI - SDFN. NOTIFY WEST ROC TO PLUM IN PRODUCTION LINE IN AM. NOTIFY CDC.	
								KB 13.00'	
								HANGER 0.83'	
								TUBING 8924.04'	
								N/C XN NIPPLE 0.68'	
								EOT @ 8938.55'	
8/19/2011	12:00 -		PROD	50	WELL TURNED TO SALES @ 1200 HR ON 8/19/2011 - 1681 MCFD				